School of Engineering

University *of* Management *and* Technology

Electrical Engineering

GRADUATES DIRECTORY 2014

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Igniting Passion

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University *of* Management *and* Technology
C-II, Johar Town, Lahore. Tel: 042 111 300 200 Ext. 3653, 3306 Email: jobfair@umt.edu.pk

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Foreword

Dear Employer,

I take great pleasure to introduce the BS-Electrical Engineering class of 2014, a group of bright individuals who are all set and prepared to make their mark in the industrial world.

Electrical Engineering programs at the UMT School of Engineering (SEN) are rigorous, result oriented, globally focused and application based. The programs are geared to equip future leaders, professionals and executives with the knowledge, technology, skills and insight essential to make a difference in the organizations. The graduates are shaped up by one of the finest faculty in the country, and are thoroughly groomed for the roles of leaders and managers in the fields of Electrical, Electronics, Telecommunication, Power Transmission and Distribution.

Established in 1990 as a project of ILM Trust, the University of Management and Technology (UMT), then known as the Institute of Leadership and Management (ILM), has evolved into a premier institution of higher learning in the country. This success rests on the high teaching and research standards maintained by the University over the years. The Higher Education Commission (HEC) of Pakistan recognizes all degree programs offered by UMT. Spread over 200 kanals of purpose-built campus, UMT distinguishes itself with over 400 full-time faculty members including more than 65 PhDs, more than 14,000 alumni-ae and 7,000 (approx) students currently enrolled from 100 districts of Pakistan and 18 countries across the globe.

Having identified the potential candidates, you may contact them directly and through us. The Office of Career Services coordinates for the on-campus tests and interviews between the candidates and the company.

Employers seeking our graduates are encouraged to make presentations with HR perspectives at SEN, University of Management and Technology (UMT) throughout the year to create awareness amongst our students about their companies and the policies well before they invite them to apply for jobs and internships.

You can make a presentation too!

We hope this directory will help you identify the most qualified candidates suitable to your human resource requirements.

We look forward to working with you.

Farzoq Ahmad Chaudhary
Director, Office of Career Services (OCS)

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University of Management and Technology (UMT), Lahore

Introduction and Philosophy

Established in 1990 as a project of ILM Trust, the University of Management and Technology (UMT), then known as the Institute of Leadership and Management (ILM), has evolved into a premier institution of higher learning in the country. This success rests on the high teaching and research standards maintained by the University over the years. The Higher Education Commission (HEC) recognizes all degree programs offered by UMT. Business and Management, Engineering and IT are the most popular programs. UMT distinguishes itself with more than 400 full-time faculty members including more than 65 PhDs, over 14,000 alumni-ae and 7,000 (approx) students currently enrolled from 100 districts of Pakistan and 18 countries across the globe. Spread over 200 kanals of urban land and housed in a purpose-built campus, the University has state-of-the-art science and engineering laboratories, computer network with more than 2,000 nodes, well-stocked library with over 100,000 books, bound periodicals and digital resources to facilitate learning and research.

Defining our Destiny - Learning, Values

As a forerunner of education and training on leadership, UMT emphasizes on leadership. With a bold agenda for national development, UMT develops workforce and activates learning for leadership. UMT promotes leadership as a state of development of human potential and a qualitative index of appreciation of total capital of knowledge, competence, and attitude. Leadership behavior is independent of the hierarchical status. It demonstrates itself in an incessant urge to be the first, to be the best, and to be on the top. Leaders are self-directed, self-managed. They relate future with the present and capitalize on the past. They are able to outclass others through their excellent performance. They succeed by learning from failures.

Education, especially at the higher level, has never been a value-free pursuit. It originates from national history, captures the nation's ideals, reinforces shared beliefs and values, and builds the edifice of human character. Education without purpose and value content is neither possible nor beneficial. Often, the confusion in the destiny of a nation is an outgrowth of distortion of the value content of the educational system. UMT enjoys a unique reputation in blending modern thought with the beliefs and value system for the fulfillment of our priorities as a nation. UMT programs are embedded in the goals and ideology of the Pakistani nation. The programs aim at building national character in view of the teachings of the Holy Quran and Seerah of Holy Prophet, Muhammad (SAW).

UMT - The Spirit

Higher Learning - Great Quaid, Great Nation

We play a constructive role towards economic development by undertaking research and development, providing knowledgeable workforce for tomorrow's knowledge-based economy, and formulating policy options for leadership. Our decisions to introduce education and training programs, conduct research projects, undertake corporate consulting, and organize career development services are all geared towards the immediate goal of making Pakistan a great nation in the mould of the vision of beloved founder of our nation and Quaid, Quaid-e-Azam, Muhammad Ali Jinnah.

Vision of Self-Mastery - Iqbal's Visualization of Self-Discovery

All elements of human character- attitude, behavior, actions, words, ideas - flow from the roots of self-image. Self-image is the key to destiny. It shapes, determines, causes, initiates, and terminates all forms of

outer behavior. The making of the self-image is embedded in how the person is assessed and evaluated in tests and trials. Thus, locus of internal control of behavior needs to be diligently nurtured through the dynamics of the assessment system. We assume that all participants are top class participants and would indeed be very successful in their professional lives. The self-image is enhanced in a healthy environment. Failures and errors are indeed treated as deviation from expectation, but are considered as just an alternate way of doing things. The capability to draw logic and to innovate is protected while identifying failures.

High Powered Skills - High Impact Roles

The real effectiveness of professionals and knowledge workers depends upon the extent to which the job entails opportunities for self-actualization. The ability of a university to attract and educate most competitive students is directly proportional to its reputation as an avenue for their optimum development as well as maximum growth in the workplace.

UMT programs focus on the development of an individual in totality, i.e., addressing the needs of mind, body, heart, spirit, and soul. It is not just the transfer of knowledge and handing out the degree that is aimed at. The soul-searching questions such as what we have achieved, what we want to achieve, and what we can achieve, help in designing a comprehensive and long-term training program on individual basis. Once professionals embark upon the road to self-actualization, they transform into powerhouses boasting unparalleled performance and unmatched competence. We impart skills on all relevant interfaces. The groups of participants go through exercises and activities designed to help them explore their own skill-set at these interfaces.

This skill-set is primarily focused on five domains: (1) person to self, (2) person to work, (3) person to people, (4) person to organization, (5) person to environment/stakeholders. They are provided with means to bring changes into their knowledge, attitudes, beliefs, and behaviors. It is this comprehensive compendium that delivers the ultimate and unparalleled advantage to UMT graduates in the real world.

Moral Mirror - Beyond Bottomline

The business of the world is to establish justice and peace and provide for itself happiness, prosperity, and quality. We believe that the successes and failures of individuals, organizations, and nations depend upon the economic as well as on moral laws. The preference of morality over the bottomline ensures long-term survival of the organizations as well as fulfillment of societal responsibility in a conscientious manner.

We view all organizations as moral entities because human beings make them. Our participants are trained in anticipating ethical concerns, analyzing potentially destructive moral dilemmas, and developing strategies for constructive integration of human values, societal concerns and business decision making.

Global Competitiveness - Local Advantage

UMT addresses issues like international trade and commerce, concentration of different competencies, formation of skills, cultural and language implications, as well as comparison of competitive advantages across national boundaries. UMT has aggressively established strategic linkages with many institutions of higher learning in the USA, Europe, and Asia. In future, UMT intends to build mutually beneficial institutional collaborations and alliances focusing on joint projects. The interaction of our faculty and participants with those of other institutions will foster global outlook of the programs and cosmopolitan character of the participants. Participants are encouraged to learn additional language or undertake a visit to the foreign country. As a host to the national and international events organized by UMT, the participants gain a unique exposure to the issues that are shaping our times.

Useful Knowledge in Dominant Professions - Learning What Works

UMT cherishes its unique place as the leading innovator of degree programs in Pakistan. It has so far pioneered many diploma and degree programs in different professions for the first time in Pakistan which subsequently have been adopted by other universities too. These programs offered intensive training to the junior level young professionals. These young specialists have been quite successful in distinguishing themselves in the crowd of generalists, for the simple reason that graduates have got exactly what the prospective employers demand. Our graduates dominate the job markets because they meet the demands of employers.

Change is Permanent - Complexity is Increasing

The destructive influx of ground change is the hallmark of the world of work today. Explosion of new knowledge poses a serious challenge to remain updated and to be aware of the newest and the latest with a view to remain competitive. Similarly, society is becoming deep because of interconnectedness, thereby increasing complexity and unpredictability. Our participants feel the pressure of constant updating of the curriculum. We update it not just once a year but almost every semester, keeping in view the new experiences and latest developments.

We equip future change agents with action gears. The modern approach to learning emphasizes action focused and result-driven techniques and instruments customized to impact the specific environments of the participants. We focus on developing the capability for innovative research work within the Pakistani context. The research studies undertaken by our participants have proved to be very valuable to the client organizations as well as government authorities. The project reports prepared by participants at the end of their programs have contributed in the improvement of business processes of many enterprises. Many participants have been able to launch their own companies soon after graduation. The faculty and the Research and Development Department have produced many innovative papers. We are at the forefront of knowledge development, sensitive to the practices, blending instruction with research activity, and responding to the supply and demand crisis.

UMT, a Community - Campus, a Theater

At UMT, teachers are known as Resource Persons and students are known as participants. This is unique in the world. The mix of resource persons, participants, and partners at UMT represents a cross-section of people from a variety of backgrounds. Together, they form a vibrant community of committed and capable leaders who work with each other, value each other's contributions, and join the process shape-up to assume future responsibilities. A select group of the most competent and highly motivated participants and partners interact with each other in class, syndicates, and groups. The teaching methodology is based on groups as well as on one-to-one settings, and teams as well as full class or batch. The use of variety of assessment methods by resource persons ensures that participants have developed the capacity to perform both independently and in teams.

Succeeding with UMT's Success - Champions in the Real World

We offer educational programs that are unique in many cases and relate to the emerging needs given the international trends and the local situation. The dividends of our investment in education and development programs accrue to the organizations in the form of developed manpower and business process improvement. Ultimately, their verdict and their acceptance are important for our success. We are externally focused and internally aligned. Thus, we have been successful in creating an expanding clientele base among the employers. Our output has been capable of satisfying the needs of stakeholders.

School of Engineering

Introduction: The School of Engineering (SEN) was created in April 2013. It comprise of the two already functional departments i.e. the Electrical Engineering Department, and Industrial and Mechanical Engineering Department

Objective: The school acts as a hub for various engineering disciplines and provides a common regulatory platform for professional education in the field of engineering with the objective to achieve national and international accreditation of degree programs offered under its umbrella.

Mission: The School of Engineering shall offer leading-edge programs to create design, application and innovation skills in its students by utilizing and involving their curiosity, intelligence and creativity

Department of Electrical Engineering: The Department of Electrical Engineering, now part of School of Engineering (SEN), currently offers two programs one undergraduate program (BS in Electrical Engineering) and a graduate program (MS in Electrical Engineering).

The Department has offered Doctoral Program (PhD) in Electrical Engineering in Fall 2014. BS Electrical Engineering is accredited from intake 2005 onwards by Pakistan Engineering Council (PEC).

BS Electrical Engineering: The Bachelor of Science in Electrical Engineering degree program is designed to develop entry-level, entrepreneurial engineering professionals who can effortlessly move into specialized technical and managerial positions after a few years of experience, and then some years later, into leadership engineering roles. The candidates for this degree program can specialize in Electronics or Telecommunications. Graduates of this program are employed by diverse technology-focused private and public sector organizations.

Laboratories: The University has a network of excellent laboratory facilities to assist engineering and science students. Laboratories are continuously updated according to the pre-set five-year development plan.

The following laboratories are available for conducting BS level experiments in Electrical Engineering Programs. Plans are in process for establishing laboratories for postgraduate research work in the very near future.

Circuits Lab

Control and Wave Lab

Digital System Lab

Electrical Machine Lab

Instruments Lab

Projects Lab

Signals Lab

Engineering Workshop Lab

Faculty Profile

Department of Electrical Engineering

Dr Salim Abid Tabassum
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Dr Muhammad Adnan
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Alphabetical listing of BS - Electrical Engineering (BS-EE) Graduates

PROFILES

BS

ELECTRICAL ENGINEERING

2014

Abdullah Raza Khan

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Cell: 0332-8331642
Email: abdullahrazakhan91@gmail.com

Born 1991

Personal Profile	▪ Good interpersonal skills - works well with others, motivates and encourages others ▪ Realistic and systematic approach to achieving tasks and objectives ▪ Passionately mature; calming and positive nature; tolerant and understanding ▪ Broad vision; able to proceed even in difficult situations ▪ Seeks and finds solutions to challenges-exceptionally encouraging approach ▪ Studied Industrial Electronics, Power Electronics, Digital Signal Processing, Electronic System Design and Digital System Design as elective courses ▪ **Functional Areas**: Control System, Digital System Design, FPGA, Circuit Analysis
Education and Qualification	**University of Management and Technology (UMT), Lahore** BS Electrical Engineering 2014 **Wapda Degree College, Tarbella** FSc 2010 **Dar-E-Arkam Model High School, Gujrat** Matriculation 2008
Professional Experience	**Wapda House, Lahore** Jul – Aug 2013 Intern ▪ Assisted in hydel operation department in general office correspondence ▪ Visited small hydel power plants and learned by observation about turbines, rotors, stators, runners and the parameters on which these should be installed ▪ Learned by observing the different types of breakers, such as mechanical breakers, gas SF6_ breakers and isolators in the switch yard
Final Project	▪ Implemented high performance frequency and phase synthesizer using same frequency with different phases on FPGA. Electronic and communication equipments required certain frequencies for their operation, which using multiple oscillators was not a feasible solution, so proposed a frequency synthesizer, which was very useful as it could generate frequencies from 3.125MHz to 100MHz. As range of DDFS was very small, if we used DDFS with our proposed synthesizer, range of DDFS could also be increased. The basic idea was to use a single frequency clock but with multiple phases. A specially designed VCO was required but we had used a ring counter to generate multiple clocks of same frequency, each with different phases. In short, implementing DFS had very wide bandwidth and output frequency was much greater than system clock
Term Projects	▪ Water level indicator using pic microcontroller. Device stopped and started motor when a particular level was reached. LCD was attached to display level of water ▪ Line following robot using pic microcontroller which worked by using signals from IR sensors. The microcontroller made the decision to turn right/left to follow the line ▪ Voltage level indicator using LM 741 which was very efficient in comparing different level of voltage ▪ Digital Dice using counter circuit displayed on seven segments. ▪ Digital Clock displayed time on seven segments using FPGA
Computer Skills	▪ Proteus, MATLAB, LabVIEW, Xilinx , Verilog HDL ▪ Microsoft Office (Word, Power Point, Excel) ▪ Internet, Email
Achievements	▪ Won Dean's Merit Award 5 times on securing good GPA in BS -EE at UMT, Lahore ▪ Won Rector 'sMerit Award in BS-EE at UMT, Lahore
Interests	▪ Internet surfing, video games, hockey, blog writing

Abrar Hussain

Address: H. No.85-86, Faisal Garden, C-II, Johar Town, Lahore
Cell: 0313-7674214
Email: abrarh2@gmail.com

Born 1986

Personal Profile

- Results-driven, logical and methodical approach to achieving tasks and objectives
- Strives for quality and applies process and discipline towards optimizing performance
- Good interpersonal and communication skills, leadership, high integrity
- Seeks and finds solutions to challenges - exceptionally positive attitude
- Solid approach to achieving tasks and objectives; determined and decisive
- Studied Power Electronics, Industrial Electronics, Digital Signal Processing, Digital Electronics and Electronics System Design as elective courses
- **Functional Areas**: Control System, Engineering Management

Education and Qualification

University of Management and Technology (UMT), Lahore
BS Electrical Engineering 2014

Sargodha College of Technology Jauharabad, Khushab
DAE (Instrument Technology) 2009

Government High School, Khushab
Matriculation 2003

Professional Experience

University of Management and Technology (UMT), Lahore Sep 2012 – Jun 2014
Teacher Assistant

- Assisted the resource person in developing and evaluating quizzes and assignments to prepare final mark sheet

Sargodha College of Technology, Jauharabad Jun 2009 – Jun 2010
Lecturer

- Taught courses of Electronic Devices and Circuits, Process Variable Measurements and Electronic Measuring Instruments.

Final Project

- Constructed a GSM Based Real time Data Logging and Control System using PIC (Microcontroller) and Sim900D GSM module. It was a Remote site Safety and Security Application developed by using Micro-Controller. System was able to read data sensors and then to analyze and graphically present that data to the user and to display the data to the operator so that he can comprehend what was going on with the process. The system was able to control via GSM Module instead of a PLC. Operator could manage the plant from anywhere. Data logging introduced in this project was helpful for solving problems as well as providing information to improve the process and production as it was very economical as compared to other control systems (PLC, etc.)

Term Projects

- Designed a digital DC voltmeter which was very effective in measuring DC volts of battery and in many other applications
- Made RF (Radio Frequency) Meter which was able to measure any Radio Frequency signal accurately
- Made Mobile Phone Detector Device which could detect if mobile is used in a restricted place in to several meters radius

Computer Skills

- MATLAB, Proteus, PSpice, MikroC, LabVIEW, MultiSim, Borland, Net Beans
- Microsoft Office (Word, Power Point, Excel), Adobe Photo Shop, CoralDraw, etc.
- Internet, email.

Achievements

- Appeared in Dean's Honor's List on securing 3.93 CGPA in BS -EE at UMT, Lahore
- Gold Medalist from PBTE Lahore for securing 1st position in DAE (Instrument technology)

Interests

- Sports, teaching, computer programming, research

Adeel Qaisar

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Born 1990

Personal Profile

- Strong analytical skills, accurate and probing
- Self-aware - always seeking to learn and grow
- Well-organized, good planner; efficient time-manager
- High integrity and honesty, ethically and socially aware
- Emotionally mature - calming and positive temperament - compassionate and caring
- Studied Power Electronics, Industrial Electronics, Digital System Design, Computer Networks and Digital Electronics as elective courses
- **Functional Areas**: Electrical, Electronics

Education and Qualification

University of Management and Technology (UMT), Lahore
BS Electrical Engineering 2014

Government College Of Science, Lahore
FSc 2009

Unique High School, Lahore
Matriculation 2006

Professional Experience

Automobiles Company Limited, Lahore Jul – Aug 2012
Intern

- Assisted in designing spare parts of Honda Motorcycle by working on CAD and CAM
- Assisted in designing moulds on CNC machines on commercial scale

Final Project

- Developed a research report on protection of three phase induction motor. Used step down transformer which step down 220V AC to 12V AC. These 12V were rectified by using bridge rectifier. Bridge rectifier gave pulsating DC output which we converted into pure DC by using capacitors. The pure 12V DC was converted into 5V DC by using regulator and applied to variable resistance which sends variable Input to microcontroller which gives signal to relays.

Term Projects

- Simulated Digital Clock on FPGA (Field Programmable Gates Array) by using Xilinx software.
- Designed a line following robot which followed a line by using Proteus.
- Designed a lift system by using Xilinx software.
- Designed an automatic heat sensor.

Computer Skills

- Proteus, Xilinx, MultiSim Software, MATLAB
- Microsoft Office (Word, PowerPoint, Excel)

Achievements

- Received scholarship during 4-year BS Electrical Engineering program
- Secured 3rd position in Unique High School in matriculation by scoring 88% marks
- Won scholarship in matriculation
- Got 83%marks in additional subject of Math during FSc by getting A+

Interests

- Technology, documentaries related to engineering, c reative writing, cricket

Ahmad Muaz Tufail

Present Address: R. No. 23, 1st Floor, Civic Center, Barkat Market, New Garden Town, Lahore
Permanent Address: H. No. 49, St. No. 4, Nusrat Town, Renala Khurd, Okara
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Born 1989

Personal Profile

- Identifies and develops opportunities, innovates and makes things happen
- Self-aware, always seeking to learn and grow
- Creative and entrepreneurial networker - effective project coordinator
- Great team-worker, adaptable and flexible
- Critical thinker, strong analytical skills; accurate and probing
- Studied Digital System Design, Optoelectronics, Electronic System Design, Digital Electronics and Digital Signal Processing as elective courses
- **Functional Areas**: Electrical, Electronics, Power Generation and Control

Education and Qualification

University of Management and Technology (UMT), Lahore
BS Electrical Engineering 2014

Okara Poly Technique Institute, Okara
DAE (Electrical) 2009

Govt. Higher Secondary School, Okara
Matriculation 2006

Professional Experience

Apex Acedmey, Renala Khurd May – Aug 2009
Lecturer

- Taught students of DAE Electrical the course of Principal of Electrical Engineering, AC and DC Machines and Power System.

Final Project

- Developed a closed loop system using Frequency Looked Loop (FLL) technique that comprised of PWM, feedback loop, AVR programming and GUI interfacing for the protection and controlling the speed of DC motor. FLL is a technique that deals with the comparisons of two frequencies(a feed back and a reference frequency). Feedback using sensor gives an error voltage with help of AVR programming and generate a PWM signal to drive the DC motor at variable loads. This method of controlling would be very helpful where a constant speed is required at variable loads

Term Projects

- Designed an inverter
- Designed a temperature sensor
- Designed a water level detector
- Designed DC Motor Speed Control with simple PWM technique.

Computer Skills

- MATLAB, Proteus ,Xilinx, WinSpice
- C/C++ Programming, Assembly Language
- Microsoft Office(Word, PowerPoint, Excel)
- Internet, email

Achievements

- Won scholarship in BS Electrical Engineering on scoring good percentage in DAE
- Won scholarship in DEA on scoring good percentage in matriculation

Interests

- Cricket, history, driving, photography

Ahmed Hassan

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Born 1991

Personal Profile	▪ Results-driven, logical and methodical approach to achieving tasks and objectives ▪ Determined and decisive, uses initiative to develop effective solutions to problems ▪ Reliable and dependable, high personal standards and attention to detail ▪ Methodical and rigorous approach to achieving tasks and objectives ▪ Emotionally mature, calming and positive temperament, compassionate and caring ▪ Studied Power Electronics, Digital System Design, Digital Signal Processing, Computer Networks and Industrial Electronics as elective courses ▪ **Functional Areas**: Electrical, Electronics, Power Generation, Computer Networks
Education and Qualification	**University of Management and Technology (UMT), Lahore** BS Electrical Engineering 2014 **Fazaia Inter College, Lahore Cantonment** FSc 2009 **Fazaia Inter College, Lahore Cantonment** Matriculation 2007
Final Project	▪ Developed a research report on CLEANING IN PLACE (CIP) using PLC. By using CIP one can clean any product line of any industrial plant automatically without disassembling it. Cleaning-in-place (CIP) is a method of cleaning the interior surfaces of pipes, vessels, process equipment, filters and associated fittings. The benefit to industries using CIP was that; cleaning was faster, less labor-intensive and more repeatable and poses less chemical exposure risk to people. CIP has evolved to include fully automated systems with programmable logic controllers, multiple balance tanks, sensors, valves, heat exchangers, data acquisition and specially designed spray nozzle systems
Term Projects	▪ Designed a temperature sensing model which can sense room temperature ▪ Designed a traffic light signal model ▪ Designed boost converter (step-up converter) by using PWM (Plus Width Modulation) technique. ▪ Simulated Digital Clock on FPG (Field Programmable Gates) by using Xilinx software ▪ Designed an inverter.
Computer Skills	▪ MultiSim, Pspice, MATLAB, Proteus ,Xilinx, Psim software ▪ Microsoft Office (Word, Power Point, Excel) ▪ C/C++ Programming, Java, Assembly Language
Interests	▪ Technology, book reading, creative writing, swimming

Ahmed Shehroz

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Born 1993

Personal Profile

- Great team-worker - adaptable and flexible
- Seeks new responsibilities and uses initiative; self-sufficient
- Good communication and interpersonal skills, high integrity
- Active and dynamic approach to work and getting things done
- Tactical, strategic and proactive - anticipates and takes initiative
- Studied Power Electronics, Industrial Electronics, Digital Electronics and Digital System Design as elective courses
- **Functional Areas**: Electrical Machineries, Control System, Engineering Management

Education and Qualification

University of Management and Technology (UMT), Lahore
BS Electrical Engineering 2014
MTB College, Sadiqabad
FSc 2010
MTB Higher Secondary School, Sadiqabad
Matriculation 2008

Professional Experience

Crown Motor Company, Sadiqabad Jun-Aug 2014
Intern
- Learned by observation, the working of electrical distribution panels
- Learned by observation, the electricity management in the factory

Crown Motor Company, Sadiqabad May-Sep 2013
Intern
- Learned the designing of electric circuit by using AutoCAD

Fauji Fertilizer Company, Goth Machi Jun - Aug 2012
Intern
- Learned and observed the working of generators, power transformer and auto transformer, Motors, Control Panels, Switch Gears, etc.

Final Project

- Constructed a safety system that protects the company from hazard caused due to fire or gas leakage. The project included three different gas sensors that detected the gas or fire. The sensor then gave signal to GSM module which automatically call and text to our desired numbers whilst alarm was rung for nearby workers to rescue that affected area. In case of fire, microcontroller transmitted signal to servo motor that pumps the water from tank and automatically sprinkled the water in the direction of fire. LCD was interfaced with this project to show which type of gases has been leaked.

Term Projects

- Designed a water level detector using Zener diode
- Developed a security lock. It used thumb sensor and keypad interfaced with microcontroller
- Designed control switching of a house using PLC
- Designed a calculator using microcontroller
- Designed a variable voltage regulator using transformer

Computer Skills

- MATLAB, Proteus, LabVIEW, CCS, Microsoft Visual Studio (C#), Xilinx
- Microsoft Office (Word, PowerPoint, Excel), Internet, e-mail

Achievements

- Winner of quiz competition Intellegento'14 at UMT, Lahore
- Participated in speed wiring contest in 2013 at UMT, Lahore

Interests

- Innovation, embedded system, digital systems, automation and PLC

Ali Raza

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Born 1991

Personal Profile	▪ Critical thinker - strong analytical skills; accurate and probing ▪ Team-player - loyal and determined ▪ Good inter-personal and communications skills ▪ Sound planning and organizational capabilities ▪ Results oriented-focused on productive and high-yield activities ▪ Studied Power Electronics, Industrial Electronics, Digital Signal Processing and Communication System as elective courses ▪ **Functional Areas**: Control System, Engineering Management
Education and Qualification	**University of Management and Technology (UMT), Lahore** BS Electrical Engineering 2014 **Swedish Pakistani Institute of Technology** Diploma ofAssociate Engineer (DAE) 2009 **Government High School, Bhagowal Khurd** Matriculation 2006
Final Project	▪ Constructed a Graphical User Interface (GUI) based Electronic Toll Collection System which could be implemented on highway for the collection of toll fee. The system was developed using Radio Frequency Identification (RFID). In this system, each vehicle would hold a RFID transmitter on its wind shield which would transmit a particular identification number. On highway, a RFID receiver would be mounted in Toll booth. When vehicle would be in the range of Toll booth its transmitted signal would be received by the RFID reader; that received signal would then be decoded and applied to microcontroller. The microcontroller would send that signal to the computer host for the comparison in database. The database was developed by the combination of SQL and C#. The signal received checked whether this ID had enough balance or not. If there was enough balance the barrier would be lifted by sending control signal to the motor through microcontroller. The remaining balance would be shown on LCD. When the vehicle passed away; the barrier would return to its original position. If balance was not enough, the barrier would not lift up
Term Projects	▪ Designed regulated variable DC Power Supply ▪ Designed an Ampere meter ▪ Designed a digital multiplier ▪ Developed an AM modulator
Computer Skills	▪ MATLAB, Proteus, LabVIEW, Mickro C, Microsoft Visual Studio (C#), Xilinx ▪ Microsoft Office (Word, PowerPoint, Excel) ▪ Internet, e-mail
Achievements	▪ Speed wiring competition runner-up ▪ Quiz competition winner ▪ Debating competition winner
Interests	▪ GUI based applications in embedded system, digital systems, automation

Amar Abbas

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Born 1991

Personal Profile	▪ Sound planning and organizational capabilities ▪ Results oriented - focused on productive and high-yield activities ▪ Reasonable and systematic approach to achieving tasks and objectives ▪ Passionately mature; calming and positive nature; tolerant and understanding ▪ Seeks and finds solutions to challenges-exceptionally positive attitude ▪ Studied Industrial Electronics, Power Electronics, Digital Signal Processing, Electronic System Design and Digital System Design as elective courses ▪ **Functional Areas**: Control System, Engineering Management, Circuit Analysis
Education and Qualification	**University of Management and Technology (UMT), Lahore** BS Electrical Engineering 2014 **Chenab College, Jhang** FSc 2010 **Chenab College, Jhang** Matriculation 2008
Professional Experience	**Shakar Ganj Sugar Mills Pvt., Ltd. Jhang, Saddar** Jun – Aug 2012 ▪ Studied different types of motors, generators and runners and their installation ▪ Worked in switchyard and managed breakers and isolators ▪ Visited power houses and learned factors on which electricity was produced through wastage
Final Project	▪ Designed a vending machine which was GSM based. It could be operated manually and also through mobile phone (SMS service). It could dispense three different products. The machine was protected through alarm and SMS alert to the owner on violation
Term Projects	▪ Voltage level indicator ▪ Water level indicator using PIC microcontroller. ▪ FM modulation using IC 8038. Successfully modulated the FM wave and result was shown on oscilloscope and spectrometer ▪ Variable current and voltage power supply which was capable of delivering up to 15V and 2amperes
Computer Skills	▪ MATLAB, Proteus, LabVIEW, Xilinx , National Instrument Tools ▪ Microsoft Office (Word, PowerPoint, Excel) ▪ Internet, e-mail
Achievements	▪ Passed online course 6.002 xs: Circuits and Electronics from The Massachusetts Institute of Technology (MIT) through edX
Interests	▪ Internet surfing, reading, circuit analysis

Ammar Akhlaq

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Born 1991

Personal Profile

- Results-driven, logical and methodical approach to achieving tasks and objectives
- Determined and decisive; uses initiative to develop effective solutions to problems
- Reliable and dependable - high personal standards and attention to detail
- Methodical and rigorous approach to achieving tasks and objectives
- Identifies and develops opportunities; innovates and makes things happen
- Studied Electronic System Design, Digital System Design, Digital Signal Processing, Integrated System Design, Digital Electronics and Power Electronics as elective courses
- **Functional Areas**: Robotics, Electronic System Design, Digital System Design

Education and Qualification

University of Management and Technology (UMT), Lahore
BS Electrical Engineering 2014

Punjab College, Rawalpindi
FSc 2009

Army Public School, Skardu
Matriculation 2007

Professional Experience

University of Management and Technology (UMT), Lahore Feb 2013 – Jun 2014
Teacher Assistant

- Assisted the resource person in developing quizzes and assignments
- Assisted the resource person in evaluating assignments, quizzes and examination
- Assisted the resource person in developing mark sheets and results

Final Project

- Constructed an 18 DOF six-leg robot; hexapod, controlled using a wireless PS2 controller. The hexapod's motions were based on inverse kinematics equations. The equations would calculate the angles of the motors required to move the hexapod according to the instruction from the PS2 controller. HITEC analog servos were used at the joints of each leg. The hexapod's body was made using aluminum through casting. The hexapod was capable of walking at variable speeds, rotation, translation, height adjustment, and providing single leg control. The hexapod could be controlled within a range of 15m using the wireless controller. The controller was used by the user to provide the direction to move in and the hexapod would treat that direction as front and move forward, so it could move in any direction without having to rotate

Term Projects

- Electronic Lock System, Audio amplifier, Robotic arm having basic movements of human elbow, Home Automation using DTMF, Line Following Robot implementing Kinematics and PID controller, Intelligent Emergency light, Remote Controller Car, Unman autonomous vehicle, Designed and developed general purpose development board for PIC controller, Simulated MIPS 32 computer architecture, Designed and developed Servo motor controllers having SPI, Designed and developed flying robot, Interface PS2 remote controller with PIC18F452

Computer Skills

- Proteus, LabVIEW, MultiSim, MatLAB, MikroC, MikroBasic, Arduino, Xilinx
- Microcontroller programming, Digital System Design, Electronic System Design, Robotic Designing and development, Development of biological inspired robots
- Programming in Basic, JAVA, C, C++
- Adobe Premier Elements, MS-Office (Word, PowerPoint, Excel, and Visio)

Achievements

- Won scholarship in 2012-13 Global Undergraduate Exchange Program in USA
- Won 1st prize at COMPPEC in project exhibition held at NUST in June 2014
- Appeared in Rectors Honor's List and Dean's Honor's list during BS-EE

Interests

- Scientific research, book reading, internet surfing for research, robotics

Aqeel Ahmed

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Born 1992

Personal Profile

- Results-driven, logical and methodical approach to achieving tasks and objectives
- Determined and decisive; uses initiative to develop effective solutions to problems
- Reliable and dependable - high personal standards and attention to detail
- Methodical and rigorous approach to achieving tasks and objectives
- Seeks and finds solutions to challenges-exceptionally positive attitude
- Studied Industrial Electronics, Power Electronics, Digital Signal Processing, Electronic System Design and Digital System Design as elective courses
- **Functional Areas**: Control System, Engineering Management, Circuit Analysis

Education and Qualification

University of Management and Technology (UMT), Lahore
BS Electrical Engineering 2014

Leadership College Network, Sialkot
FSc 2010

UBHS, Sialkot
Matriculation 2008

Professional Experience

Pakistan Telecommunication Limited (PTCL)
Intern
- Learned the working of electronic devices, networking, communication and wireless technologies and their applications

Mangla Power Station, Mangla Jun – Aug 2013
Intern
- Assisted in switchyard and managed breakers and isolators
- Visited Spillway and learned factors on which irrigation department control water storage
- Studied different types of motors, generators and runners and their installation criteria

Final Project

- Developed a GSM based vending machine which is able to dispense three different products (cold drink, snacks, biscuits) using mobile networks as our purchasing source

Term Projects

- Water level indicator using PIC microcontroller which was very effective in measuring water level along with low level indication alarm
- Worked on line following robot using PIC Microcontroller, by using IR sensors and LEDs. The microcontroller made decision to follow black line with respect to white background and control gear motors.
- Variable current and voltage power supply which was ca pable of delivering up to 15V and 2 Amperes

Computer Skills

- MATLAB, Proteus, LabVIEW, Xilinx, National Instrument Tools
- Microsoft Office (Word, PowerPoint, Excel)
- Internet, e-mail

Achievements

- Passed an online course 6.002x: Circuits and Electronics from The Massachusetts Institute of Technology (MIT) through edX.
- Received best performance award twice in inter – university football match

Interests

- Circuits analysis, social networking, adventures, football, traveling

Asaad Masood

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Born 1993

Personal Profile	▪ Good interpersonal skills, works well with others, motivates and encourages ▪ Self-driven and self-reliant, sets aims and targets, leads by example ▪ Great team-worker, adaptable and flexible ▪ High integrity and honesty; ethically and socially aware ▪ Seeks new responsibilities and uses initiative, self-sufficient ▪ Studied Power Electronics, Industrial Electronics, Digital System Design, and Digital Electronics as elective courses ▪ **Functional Areas**: Electrical, Electronics
Education and Qualification	**University of Management and Technology (UMT), Lahore** BS Electrical Engineering 2014 **ILM College, Lahore** FSc 2010 **Punjab University Laboratory High School, Lahore** Matriculation 2008
Final Project	▪ Developed a research report and designed an Intelligent Load and Power Sources Management using Wireless Sensor Network. Utilized two power sources: AC main and solar power. It detected solar power intensity and used it for charging batteries. This was power s ources management and based on smart algorithm. At time of load -shedding power automatically switches from main source to backup utilizing stored power hence minimizing electricity bills smartly. Also designed a wireless sensor network based on intelligent algorithm for detecting human presence in room for automatic switching of appliance. This cuts off major misuse of energy. An Interface was also provided for monitoring voltage and power usage in every room
Term Projects	▪ Designed and developed a real time clock on FPGA in digital signals. ▪ Used laser communication to transmit data from one source like a cell phone to another source like a sound system ▪ Designed a Sine and Cosine wave generator. It could be used as power supply for different electric equipments ▪ Designed four way traffic light controllers with the help of PIC controller
Computer Skills	▪ **Electronics:** PSim, Proteus, NI Multisim, Simulink, MultiSim, PSpice, MATLAB, Proteus, LabVIEW ▪ Arduino, MikroC for PIC, PCSpim, Xilinx ▪ **C++ Programming:** Visual Studio, NetBeans IDE ▪ **Designing/Editing**: AutoCAD, Adobe Photoshop ▪ Microsoft Office(Word, Power Point, Excel) ▪ Internet, Email
Achievements	▪ President Leaders Forum 2013-2014 at UMT, Lahore ▪ Executive member of Idyllic Youth Society, Lahore ▪ Got certification in PLC from PITAC in 2014 ▪ Won merit scholarship in BS -Electrical Engineering ▪ Won merit scholarship in FSc
Interests	▪ Gardening, religion, sports, internet surfing for research

Ayesha Nisar

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Born 1991

Personal Profile

- Good interpersonal skills - works well with others, motivates and encourages
- Results-driven, logical and methodical approach to achieving tasks and objectives
- Emotionally mature; energetic, optimistic, positive temperament
- Good strategic appreciation and vision; able to implement sophisticated plans
- Seeks and finds solutions to challenges-exceptionally positive attitude
- Studied Digital electronics, Optoelectronics, Industrial Electronics, Discrete-time Signal Processing and Digital System Design as elective courses
- **Functional Area**: Communication Systems

Education and Qualification

University of Management and Technology (UMT), Lahore
BS Electrical Engineering — 2014
Queen Marry College, Lahore
FSc — 2010
Lahore Learning Campus
O-levels — 2007

Professional Experience

Pak Electron Limited, Lahore — 2013
Intern (Switch Gear Dept.)

- Assisted in presenting and preparing a report that consisted of analytic work and comparison between IEC and WAPDA specifications

Final Project

- Our FM transmitter and receiver are built with discrete analog components and integrated on three circuit boards. This project designates the design work for our intention to connect to vehicles by implementing of transmitter-receiver technique by means of frequency modulation of range HF i.e. 25 MHz. Our design consists of an audio amplifier, VCO (Voltage Controlled Oscillator), crystal COLPITTS oscillator and power amplifier at transmitter side whereas receiver consists of LNA (Low Noise Amplifier), oscillator, mixer, PLL (Phase Locked Loop) and a low pass filter. Our measurement and results are also included in this project. The power of our transmitter is 486 mW and receiver is126 mW. This receptivity level translates to successful audio reception at a distance of almost 30m from the transmitting antenna

Term Projects

- Made Digital Voltmeter by using PIC Microcontroller interfaced with LCD
- Binary to 7-segment display by using diodes for switching purpose
- Developed amplifier, audio, of class AB & 0.25mWatt.

Computer Skills

- MATLAB, Proteus, LabVIEW, Xilinx.
- Microsoft Office (Word, PowerPoint, Excel)
- Internet, e-mail.

Achievements

- Participated in TECHNO Fiesta 2014, a two days event that conducted gaming, programming and quiz competition by 'IEEE-Wie UMT, Lahore
- Volunteered to work in the promotional activities of event by doing creative work at background, like painting posters etc.

Interests

- Making oral presentations, writing, research, analysis, audio transmission work

Ayesha Tariq

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Born 1991

Personal Profile

- Determined and decisive; uses initiative to meet and resolve challenges
- Strives for quality and applies process and discipline towards optimizing performance
- Extremely reliable and dependable - analytical and questioning, strives for quality
- Methodical approach to planning and organizing – efficient time-manager
- Good communication and interpersonal skills, leadership, high integrity
- Studied Digital Electronics, Optoelectronics, Industrial Electronics, Digital System Design and Discrete-time Signal Processing as elective courses
- **Functional Area:** Communication Systems

Education and Qualification

University of Management and Technology (UMT), Lahore
BS Electrical Engineering 2014
Divisional Public School and Intermediate College, Lahore
FSc 2010
Divisional Public School and Intermediate College, Lahore
Matriculation 2008

Final Project

- Our FM transmitter and receiver are built with discrete analog components and integrated on three circuit boards. This project designates the design work for our intention to connect to vehicles by implementing of transmitter-receiver technique by means of frequency modulation of range HF i.e. 25 MHz. Our design consists of an audio amplifier, VCO (Voltage Controlled Oscillator), crystal COLPITTS oscillator, power amplifier at transmitter side whereas receiver consists of LNA (Low Noise Amplifier), oscillator, mixer, PLL (Phase Locked Loop) and a low pass filter. Our measurement and results are also included in this project. The power of our transmitter is 486 mW and receiver is126 mW. This receptivity level translates to successful audio reception at a distance of almost 30m from the transmitting antenna.

Term Projects

- Made Digital Voltmeter by using PIC Micro -controller interfaced with LCD which was very effective in measuring volts.
- Binary to 7-segment display.
- Audio amplifier
- Door bell or buzzer
- Dark sensor
- Inverter Layout and Schematic Design

Computer Skills

- MATLAB, MultiSim
- Microsoft Office (Word, PowerPoint)
- Internet, e-mail

Achievement

- Participated in IEEE-Wie 2014 as a volunteer UMT, Lahore

Interests

- Communication systems, traveling, watching informative programs, badminton

Azzad Uddin

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Born 1993

Personal Profile	▪ Excellent interpersonal skills, good communicator, leadership, high integrity ▪ Strong planning, organizing and monitoring abilities, an efficient time-manager ▪ Self-driven and self-reliant, sets aims and targets, leads by example ▪ Self-aware, always seeking to learn and grow ▪ Emotionally mature and confident, a calming influence ▪ Studied Digital System Designing, Electronic System Designing, Industrial Electronics, Digital Signal Processing and Power Electronics as elective courses ▪ **Functional Areas**: Electrical, Electronics, Digital Logics
Education and Qualification	**University of Management and Technology (UMT), Lahore** BS Electrical Engineering 2014 **Arab Pakistani School Abu Dhabi, UAE** FSc 2010 **Arab Pakistani School Abu Dhabi, UAE** Matriculation 2008
Final Project	▪ Constructed an 18 DOF Six-leg robot; hexapod, controlled using a wireless PS2 controller. The hexapod's motions were based on inverse kinematics equations. The equations would calculate the angles of the motors required to move the hexapod according to the instruction from the PS2 controller. HITEC analog servos were used at the joints of each leg. The hexapod's body was made using aluminum through casting. The hexapod was capable of walking at variable speeds, rotation, translation, height, and providing single leg control. The hexapod could be controlled within a range of 15m using the wireless controller. The controller was used by the user to provide the direction to move in and the hexapod would treat that direction as front and move forward, so it could move in any direction without having to rotate
Term Projects	▪ Pulse-meter to measure the pulse using photodiode and 7-segment to display the pulse ▪ Word clock to display the time in words after every 15 minutes using PIC microcontroller interfaced with LCD ▪ Real time clock using Spartan 3E FPGA board with input from the user and the output time on the board's 7-segment display. ▪ Emergency light controlled by relay switches to turn the light on when main supply goes off and the ambient light is not enough
Computer Skills	▪ Proteus, LabVIEW, MultiSim, MatLAB, MikroC, MikroBasic, Ardu ino, Xilinx, Cyberlink Power Director, SonyVegasPro ▪ Microcontroller programming, Digital System Design, Electronic System Design ▪ Programming in Basic, JAVA, C, C++,and PLC Ladder Logic ▪ Adobe Premier Elements ▪ MS-Office (Word, PowerPoint, Excel, and Visio)
Achievements	▪ Appeared in Dean's Honors list and Rector's Honors list during BS -EE ▪ Won 1st prize at COMPPEC in project exhibition held at NUST in June 2014 ▪ Got 2nd position in speed wiring competition
Interests	▪ Technology, news reading, traveling, cricket

Danial Abid

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Born 1990

Personal Profile	▪ Seeks new responsibilities and uses initiative; self-sufficient ▪ Solid approach to achieving tasks and objectives; determined and decisive ▪ Excellent interpersonal skills - good communicator, high integrity ▪ Energetic and physically very fit; quick to respond to opportunities and problems ▪ Active and dynamic approach to work and getting things done ▪ Studied Computer Networks, Power Electronics, Optoelectronics, Telecom Management, Engineering Management and Communication Systems as elective courses ▪ **Functional Areas**: Electrical, Electronics, Computer Hardware, Power Generation
Education and Qualification	**University of Management and Technology (UMT), Lahore** BS Electrical Engineering 2014 **Superior Science College, Gujranwala** FSc 2009 **Educators School System, Gujranwala** Matriculation 2007
Professional Experience	**PTCL, Lahore** Mar – May 2014 Intern ▪ Assisted in NMS transmission by locating faults ▪ Assisting in resolving customer complaints
Final Project	▪ Developed a research report on generating electricity by road traffic without any fuel. The idea was to generate electricity, when an automobile passes over the inclined sets of plates. The design consisted of electrical as well as mechanical part. The mechanical part included gears, shaft rods and ball bearings etc; whereas the electrical part consisted of a rectifier and voltage regulation. For backup, batteries could be used
Term Projects	▪ Designed a digital water level detector using PIC microcontroller. ▪ Designed a buck boost regulator, using inductors and transistors ▪ Designed a battery charger
Computer Skills	▪ MultiSim, MATLAB, Proteus, National Instrument, Packet tracer ▪ Skilled in various software's and burning tools ▪ Ms Office (Word, Excel, Power Point) ▪ Internet, email
Achievements	▪ Won 2nd position in athletics in college in 2009 ▪ Won 3rd position in badminton at school in 2006
Interests	▪ Technology, reading books, helping people , exploring new mobile apps

Faizan Ali Awan

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Born 1993

Personal Profile

- Good strategic appreciation and vision; able to build and implement sophisticated plans
- Realistic and logical approach towards every problem faced
- Emotionallymature; calming and positive temperament; tolerant and understanding
- Strategy maker, broad vision; able to proceed even in difficult situations
- Identifies and develops opportunities; innovates and makes things happen
- Studied Industrial Electronics, Power Electronics, Digital Signal Processing, Electronic System Design and Digital System Design as elective courses
- **Functional Areas:** Control System, Engineering Management, Computer Coding

Education and Qualification

University of Management and Technology (UMT), Lahore
BS Electrical Engineering 2014

Govt. College University, Faisalabad
FSc 2010

Govt. Crescent Model High School, Faisalabad
Matriculation 2008

Professional Experience

WAPDA Manawala Grid Station, Faisalabad Jun – Aug 2013
Intern

- Learned by observation the working in control room on different parameters
- Learned by observation the fault detection and fault removal of grid stations
- Learned by observation security based grid station maintenance to avoid any fault caused due to fluctuation of voltage

Final Project

- DTMF controlled mine detecting vehicle which was designed to find explosive mines hidden underneath at borders by using technology present in Pakistan. Idea was to make a robot which would save human lives lost in finding mines in border areas. Mines were detected with the help of metal detector, working on the principle of Eddie current. Identification of mine locations was done by a handmade shiny, sticky paint pouring system. Whole design was very cost effective, which would be very useful for the military

Term Projects

- Temperature detecting control system using LM7809
- Smart traffic lights using pressure sensor, fully automated traffic signal control system, integrated with pressure sensor
- Digital real time clock using PIC16F877A
- Water level detecting system using gate logic and 7-segments
- Binary codes lock system, which provided better security system

Computer Skills

- C++, JAVA, Micro C, MATLAB, LabVIEW
- Microsoft Office (Word, PowerPoint, Excel)
- Internet, email

Achievements

- Participated in coding competition in 2013 at UMT, Lahore
- Passed online course 6.002x:Circuits and Electronics from The Massachusetts Institute of Technology (MIT) through edX

Interests

- Coding, problem solving, digital systems, automation

Farrukh Zaman Khan

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Born 1990

Personal Profile	▪ Critical thinker - strong analytical skills, accurate and probing ▪ Self-aware - always seeking to learn and grow ▪ Well-organized, good planner; efficient time-manager ▪ High integrity and honesty, ethical and socially aware ▪ Emotionally mature - calming and positive temperament - compassionate and caring ▪ Studied Power Electronics, Digital System Design, Digital Signal Processing and Computer Networks as elective courses ▪ **Functional Areas**: Electrical, Electronics, Power Generation, Control
Education and Qualification	**University of Management and Technology (UMT), Lahore** BS Electrical Engineering 2014 **Government College Model Town, Lahore** FSc 2008 **Hamdard Public School, Lahore** Matriculation 2006
Professional Experience	**Descon Engineering, Lahore** Aug 2011 Intern ▪ Assisted in operation and maintenance of various sites. ▪ Assisted in making designs (blue print) of different projects on AutoCAD
Final Project	▪ Developed a research report on car crash prevention system through radar and ultrasonic sensors. Through this system an obstacle could be detected in front of the automobile and brakes were applied accordingly to avoid the crash. Through this system the driver gets alert with buzzer to avoid car crash as well.
Term Projects	▪ Developed a research report on working of Propeller Clock. Used C language to display the data given in the code. Used PIC microcontroller PIC16F628 to process the given data to be displayed on LEDs ▪ Developed a mobile phone battery ▪ Developed Clock on FPGA
Computer Skills	▪ MultiSim , Pspice, MATLAB, Proteus ,Xilinx, Psim, AVR Software and AutoCad ▪ Microsoft Office (Word, Power Point, Excel) ▪ C/C++ Programming, Java, Assembly language
Achievements	▪ Organized PLC workshop in UMT, Lahore on March 2013 ▪ Organized AVR workshop in UMT, Lahore in April 2012 ▪ Runner-up in quiz competition held in 2009 in UMT, Lahore
Interests	▪ Creative-writing, book reading, research, swimming

Hafiz Azeem Abbas

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Born 1990

Personal Profile

- Strong planning, organizing and monitoring abilities, an efficient time-manager
- Self-driven and self -reliant, sets aims and targets, leads by example
- Good interpersonal skills, works well with others, motivates and encourages
- High integrity, diligent and conscientious, reliable and dependable
- Self-aware, always seeking to learn and grow
- Studied Digital Signal Processing, Optoelectronics, Power Electronics, Digital Electronics and Industrial Electronics as elective courses
- **Functional Areas**: Control System, Engineering Management

Education and Qualification

University of Management and Technology (UMT), Lahore
BS Electrical Engineering — 2014

Govt College University (GCU), Lahore
FSc — 2009

Govt Central Model High School Lahore
Matriculation — 2007

Professional Experience

LESCO, Lahore — Jul 2013
Intern

- Assisted in Power Management Unit (PMU) in load planning for next five years
- Assisted in proposing alternate solutions to manage power for upcoming period

Final Project

- Designed a smart intelligent hand for physically impaired people and interfaced it with user voice commands through voice recognition system. Sensors were used to grasp the object with sufficient force. The robotic hand interacted through voice commands. The person had to bring the robotic hand close to the object and speak the command like “grab” and the fingers would grab the object with sufficient force so that it does not break or drop the object. Designed a voice recognition module with user’s voice so that it would not accept any other voice. The motions are controlled by motors fixed on back side of palm

Term Projects

- Designed home automation system controlled by mobile keypad using PIC 16F887 microcontroller and DTMF (Dual Tone Multiple Frequency Decoder)
- Design and fabrication of sound decoder circuit
- Design and fabrication of LDR circuit (light sensor)
- Design and fabrication of regulated power supply
- Designed JAVA language based calculator

Computer Skills

- **Engineering Software:** Visual Studio, Borland, AutoCAD, PROTEUS, Xlinx, Matlab, MPlab, Micro C
- MS-Office (Word, Excel, PowerPoint)
- Computer Languages: C, JAVA, Assembly Language.

Achievements

- Appeared in Dean’s Honor List and Rector’s Honors List during BS-EE
- Won 1st position in School Science Competition

Interests

- Research, technology, swimming, speed wiring and programming competition

Hafiz Fahid Ali

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Born 1990

Personal Profile	▪ Tactical, strategic and proactive - anticipates and takes initiative ▪ Systematic and logical - develops and uses effective processes ▪ Good listener - caring and compassionate ▪ Critical thinker - strong analytical skills; accurate and probing ▪ Good researcher - creative and methodical - probing and resourceful ▪ Studied Power Electronics, Industrial Electronics, Digital Signal Processing, Electronic System Design and Digital Electronics as elective courses ▪ **Functional Areas:** Electrical, Electronics
Education and Qualification	**University of Management and Technology (UMT), Lahore** BS-Electrical Engineering 2014 **District Public School and College, Kasur** FSc 2010 **Kasur Public School, Kasur** Matriculation 2008
Professional Experience	**NTDCL, WAPDA, Lahore** Jun – Jul 2013 Intern ▪ Assisted Technical Services Group (TSG) in line protection (transmission line) ▪ Assisted in Design and Standards (D&S) of energy meters and transformers
Final Project	▪ Developed a research report on a real time demonstration of a chemical/liquid mixture using PLC. Took three liquids and mixed them in mixing chamber. This mixed solution was collected in a separated container that was placed on a conveyer belt. Sensors were used to detect the level of water in containers that would help to refill them. Solenoid valves were used to control the flow of liquid. Special feature of this model was that we could make up to four different schemes and in one cycle we had three bottles solution. We could also change the size of the bottle
Term Projects	▪ Home security Burglar Alarm ▪ 3 phase Star to Delta Load ▪ Countdown timer circuit ▪ 12V Car battery Charger ▪ 4X4 Calculator Using 8051 Microprocessor with Keypad Interfacing ▪ Several projects on Auto-CAD ▪ Amplitude Modulation using mc1496
Computer Skills	▪ MATLAB, Proteus, LabVIEW, Microsoft Visual Studio, Xilinx , PSpice, PC -SPIM, MPLAB, Multisim ▪ Good practical familiarity with programming languages Java, Assembly and C/C++ ▪ Microsoft Office (Word, Power Point, Excel), Internet, email
Certifications	▪ Participated in workshop on Matlab Fundamentals in 2013 at UMT, Lahore ▪ Participated in workshop on Programmable Logic Controller in 2013 at UMT, Lahore ▪ Participated in Programmable Logic Controller training using Siemens S7-300 PLC from EESINT (Electrical Engineering Solution International Pvt. Ltd.) in 2012
Interests	▪ Innovation, PLC, digital systems, automation, electronic circuits

Hafiz Moaz Afzal

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Born 1990

Personal Profile

- Good interpersonal skills - works well with others
- Logical and methodical approach to achieving tasks and objectives
- Tolerant and understanding, motivates and en courages
- Good strategic appreciation and vision; able to implement sophisticated plans
- Seeks and finds solutions to challenges-exceptionally positive attitude
- Studied Power Electronics, Industrial Electronics, Digital Signal Processing, Computer Networks and Electronic System and Design as elective courses
- **Functional Areas**: Electronics, Telecommunication, Computer Networking

Education and Qualification

University of Management and Technology (UMT), Lahore
BS Electrical Engineering 2014

Punjab College of Science, Faisalabad
FSc 2009

Govt. M.C High School, Faisalabad
Matriculation 2007

Professional Experience

Sitara Energy Limited, Faisalabad Jun – Jul 2013
Intern

- Assisted in operation of HFO, NIGATA and CATERPILLAR gas engin e and gas turbine to understand the process of energy generation through these engines
- Assisted in the operation to synchronize the whole power house with WAPDA

Final Project

- Developed a research report on designing and Implementation of 2D Plotter by Rol ler technique using Arduino for Laser Cutter/Engraver

Term Projects

- Designed a water level indicator circuit
- Converted 220V AC into 5V DC
- Designed Mini F1 race track grid start lights circuit using PC microcontroller.
- Designed phase looked loop FM Demodulator
- Designed dice roller circuit
- Car battery level indicator circuit

Computer Skills

- MATLAB, Proteus, LabVIEW, Mulitisim, C Language, Xilinx, MP Lab
- Object Oriented Programming, Mikro C, Assembly Language, Eagle Software
- Arduino Programming, PLC, PID T rainer, F.M, A.M Trainers, Auto CAD
- Microsoft Office(Word, Excel, Power Point)
- Internet, email

Interests

- Innovation, electronic systems, teaching and helping people, traveling, cricket

Hafiz Muhammad Waqas Irshad

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Born 1989

Personal Profile

- Results-driven, logical and methodical approach to achieving tasks and objectives
- Reliable and dependable - high personal standards and attention to detail
- Entrepreneurial and proactive - strong drive and keen business mind
- Good strategic appreciation and vision; able to build and implement sophisticated plans
- strives for quality and applies process and discipline towards optimizing performance
- Studied Power Electronics, Industrial Electronics, Digital Signal Processing and Communication System as elective courses
- **Functional Areas**: Control System, Engineering Management

Education and Qualification

University of Management and Technology (UMT), Lahore
BS Electrical Engineering 2014

Government College of Technology, Sargodha
DAE (Instrument Technology) 2010

Government High School, Lahore
Matriculation 2007

Professional Experience

DH Fertilizers Limited Sheikhupura Jun - Jul 2013
Intern

- Worked with DCS, PLC vendors like Siemens, Hone well

Final Project

- Wye-Delta Conversion and Power Factor Improvement of Three Phase Induction Motor using PLC. First, we started motor on star connections and converted it into a Wye connection for soft starting of induction motor. Then, we used capacitors for improving power factor. This procedure was carried out automatically and we used microcontroller for this automation and used PLC for auto selection of capacitors from cap bank

Term Projects

- Made Two way digital clock by using logic gates
- Designed a digital DC voltmeter which was very effective in measuring DC volts of battery and many other applications
- Design a level controller of tank using PIC Microcontroller

Computer Skills

- MATLAB, Proteus, LabVIEW, CCS, Microsoft Visual Studio (C#), Xilinx
- Microsoft Office(Word, PowerPoint, Excel)
- Internet, e-mail

Achievements

- Participated in brain clash competition in 2013 at UMT, Lahore
- Participated in International Kangaroo Mathematics Contest in 2006

Interests

- Digital Systems, automation

Hafiz Osaid Atif

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Born 1990

Personal Profile

- Strives for quality and applies process and discipline towards optimizing performance
- Extremely reliable and dependable - analytical and questioning, strives for quality
- Methodical approach to planning and organizing
- Good communication and interpersonal skills, leadership, high integrity
- Strong planning, organizing and monitoring abilities - an efficient time-manager
- Studied Power Electronics, Industrial Electronics, Digital System Design and Digital Electronics as elective courses
- **Functional Areas**: Electronics, Telecommunication

Education and Qualification

University of Management and Technology (UMT), Lahore
BS Electrical Engineering 2014

ILM College, Lahore
FSc 2010

Heritage School System, Lahore
Matriculation 2008

Professional Experience

Verscom Solutions, Lahore Sep 2014 – Present
NOC Engineer
- Monitor network of clients for smooth running of network
- Trouble shoot the problem in networks to identify and remove faults

Descon Ltd., Lahore Jun – Jul 2013
Intern
- Learned by observation the erection and commissioning of boilers at different sites, such as Neslte Kabirwala
- Learned by observation the designing and manufacturing of boilers in factory

Final Project

- Designed Dual Axis Solar Panel Tracker. Tracked the sun on both x and y-axis. Four light dependent resistors were used. Two DC motors were used for the movement of the mechanical structure on both axis. PIC 16F877 was used in this project whose Port B was used for the display on the LCD. Port D was used for the rotation of motors and Port C was used as the input coming from the LDR's through comparators named as LM324. Tracking was done in order to get maximum efficiency as compared to fixed or mount and Single Axis Tracker system. When the panels were pointed perpendicu larly to the sun rays, it would produce more energy and as a result increases the overall efficiency of the system

Term Projects

- Developed Rotating LED display using Microcontroller
- Designed two way security lock using flip flops
- Designed water level detector using logical gates
- Designed a real time clock on FPGA

Computer Skills

- Proteus, LabVIEW, PcSpim, MPlab, MatLAB,
- Microsoft Office (Word, PowerPoint, Excel)
- PLC, Logic Designing, Microprocessors, i.e. PIC, FPGA

Achievements

- Participated in PLC workshop held at UMT, Lahore
- Participated in MATLAB workshop held at UMT, Lahore
- Team Lead at Punjab Youth Festival
- Photographer at Social Media UMT, Lahore

Interests

- PLC, digital logic designing, programming, photography, religion

Hafiz Raza Iftikhar

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Born 1988

Personal Profile

- Good strategic appreciation and vision; able to implement sophisticated plans
- Extremely reliable and dependable - analytical and questioning, strives for quality
- Emotionally mature and confident - a calming influence
- Great team-worker - adaptable and flexible
- Energetic and physically very fit; quick to respond to opportunities and problems
- Studied Power Electronics, Industrial Electronics, Digital System Design, Engineering Ethics and International Relations as elective courses
- **Functional Areas**: Electrical (Electronics, Computer)

Education and Qualification

University of Management and Technology (UMT), Lahore
BS Electrical Engineering — 2014

Punjab College of Commerce, Lahore
FSc — 2009

Cathedral School Church Road, Lahore
Matriculation — 2007

Professional Experience

Descon Integrated Projects (Private) Limited, Lahore — Aug-Sep 2013
Intern

- Assisted in Instrumentation and Control (I &C) Department by developing P&ID's sheet for field engineers working on Barzan Onshore Project at Qatar
- Assisted in order taking of national and international project to maximize business

Final Project

- Developed a research report and model on Laser Based Free Space Communication System. This project was about laser based communication system which is one of the forms of optical communications system. It enables communication up to several hundred meters. The three basic elements of the system are Light Emitting Element, Transmission Media and a Light Receiving Element

Term Projects

- Developed a Digital Voting Machine. The machine showed the casting of votes by the voters
- Developed a water level indicator for water tanks. Used LED's to show the water level in tank by different colors indicating different water levels.
- Made a digital clock using FPGA. The working of clock was displayed on FPGA in the form of electrical blinks on LED's.

Computer Skills

- Pspice, Matlab, Labview, Autocad, Proteus, Multi sim, Xilinx
- Microsoft Office(Word, Power Point, Excel)
- Internet, email

Achievements

- Participated in workshop on PLC Programming and Simulation in 2013 at UMT, Lahore
- Runner-up of speed wiring competition in 2013 at UMT, Lahore
- Got scholarship from HBL in matriculation and intermediate
- Played in 6th L.D.B.E. Cricket Tournament as Vice Captain (achieved 3 rd position)

Interests

- Mathematics, sports, political affairs, driving

Hammad Javed Alvi

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Born 1990

Personal Profile

- Well-organized; good planner; efficient time-manager
- Seeks new responsibilities and uses initiative; self-sufficient
- Solid approach to achieving tasks and objectives; determined and decisive
- Excellent interpersonal skills - good communicator, high integrity
- Energetic and physically very fit; quick to respond to opportunities and problems
- Studied Power Electronics, Telecom Switching, Digital System Design, Computer Network and Digital Signal Processing as elective courses
- **Functional Areas**: Electrical, Electronics, Power Generation and Control

Education and Qualification

University of Management and Technology (UMT), Lahore
BS-Electrical Engineering 2014
Punjab College of Science, Lahore
FSc 2008
BISE, Lahore
Matriculation 2006

Professional Experience

IBEX Chemicals, Lahore Jan 2010 – Jan 2013
Supervisor
- Supervised all electrical installation of water treatment plants
- Maintained and updated the payroll of employees for salary calculations

University of Management and Technology (UMT), Lahore Feb – Jun 2009
Teacher Assistant
- Assisted in checking quizzes, grading assignment and preparing mark sheets

Final Project

- Developed a research report on microcontroller based home energy management system using Zigbee device. It controlled all the house hold home appliances and their energy management system.

Term Projects

- Designed Inverter
- Implemented shift register
- Designed boost converter (step-up converter) by using PWM (Plus Width Modulation) technique.
- Simulated digital clock on FPG (Field Programmable Gates) by using Xilinx software

Computer Skills

- MultiSim, Pspice, MATLAB, Proteus ,Xilinx, Psim Software
- C/C++ Programming, Java, Assembly language
- Microsoft Office(Word, PowerPoint, Excel)

Achievements

- Got distinction in math courses during BS Electrical Engineering at UMT, Lahore

Interests

- Technology, book reading, surfing the net for electrical research, swimming

Hamza Ashraf

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Born 1989

Personal Profile

- Great team-worker - adaptable and flexible
- Well-organized, good planner; efficient time-manager
- Completer-finisher, checks and follows up, immaculate record-keeper
- Emotionally mature, calming and positive temperament, compassionate and caring
- High integrity and honesty, ethically and socially aware
- Studied Electronic System Design, Optoelectronics, Digital System Design, Digital Signal Processing and Communication System as elective courses
- **Functional Areas**: Electrical, Electronics, Power Generation and Control

Education and Qualification

University of Management and Technology (UMT), Lahore
BS Electrical Engineering 2014

Punjab College, Gujranwala
FSc 2008

Ali Garh, Pilot School, Hafizabad
Matriculation 2006

Professional Experience

Gujranwala Electric Power Compnay, Gujranwala Jun – Jul 2013
Intern

- Assisted in the operation of syncing the whole power house with WAPDA

Final Project

- Developed and designed a three Phase Pure Sine Wave Inverter which converted DC to AC .The inverter took DC from the solar panel and converted it into Three Phase Pure Sine Wave AC. The energy which we get from solar panel is in the form of DC but the energy we used in our homes or industry is AC so converted it from DC to AC.

Term Projects

- Designed a sound level meter using PIC micro controller. It could be used to identify the level of sound (noise) in a factory to take precautionary measures
- Designed a single phase inverter.
- Designed boost converter (step-up converter) by using PWM (plus width modulation) technique
- Implemented Binary to 7-segment display.

Computer Skills

- MATLAB, Proteus, LabVIEW, Xilinx
- Microsoft Office(Word, PowerPoint, Excel)
- Internet, email

Achievements

- Participated in Conference on IT Entrepreneur in 2012
- Participated in workshop on resume writing and interview skills in 2013 at UMT, Lahore
- Participated in quiz competition at school level in Hafizabad

Interests

- Book reading, Islamic history, traveling, education

Haroon Rashid

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Born 1991

Personal Profile

- Sound planning and organizational capabilities
- Results oriented - focused on productive and high-yield activities
- Good interpersonal and communication skills
- High integrity and honesty; ethically and socially aware
- Seeks and finds good outcomes to challenges
- Studied Power Electronics, Industrial Electronics, Digital Signal Processing and Communication System as elective courses
- **Functional Areas**: Control System, Engineering Management

Education and Qualification

University of Management and Technology (UMT), Lahore
BS Electrical Engineering — 2014

Punjab College, Faisalabad
FSc — 2009

Al Faisal Grammar High School, Faisalabad
Matriculation — 2007

Professional Experience

Rafhan Mills Ltd, Faisalabad — Jun 2013
Intern (Instrumentation department)

- Studied about PLC and it's working
- Studied about ladder and relay logic, sensors, gates, troubleshooting techniques
- Studied how to control sensors by PLC

Final Project

- Designed a Micro Hydel Power Plant, in order to minimize the electricity crisis in Pakistan. An induction generator and Pelton turbine were used to generate about 1.2KW from water tanks located in societies. The background of this project was that macro plants were working from a very long period but they were insufficient for our needs. We tried our best to make a micro plant and utilized our sources to generate power. No fuel was needed; so, working cost of this project was bearable. This project was also funded by ICT grass root, Ministry of Pakistan

Term Projects

- Designed and developed a water level indicator using seven segment display
- Designed a home automation using micro-controller chip
- Developed and displayed, Welcome to UMT using LED illu sion technique
- Developed a traffic control system
- Developed an electric die
- Designed and developed a temperature detector

Computer Skills

- MATLAB, Proteus, LabVIEW, Microsoft Visual Studio (C#), Xilinx
- Microsoft Office (Word, PowerPoint, Excel)
- Internet, e-mail

Achievements

- Participated in workshop on PLC at UMT, Lahore

Interests

- Micro electronics, power house, energy system and management, design

Ibrar Ahmad

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Permanent Address: St. No. 01, Main Bazaar, Rao Aslam Cloth House, Post Office, Jaboka Tehsil, District Okara
Cell: 0300-4389847
Email: raoibrar@gmail.com
Born 1993

Personal Profile

- Strong planning, organizing and monitoring abilities - an efficient time-manager
- Good interpersonal skills - works well with others, motivates and encourages
- Great team-worker - adaptable and flexible
- Results oriented - focused on productive and high-yield activities
- Tactical, strategic and proactive - anticipates and takes initiative
- Studied Power Electronics, Industrial Electronics, Digital Electronics, Digital System Design and Communication System as elective courses
- **Functional Areas:** Electrical, Electronics

Education and Qualification

University of Management and Technology (UMT), Lahore
BS Electrical Engineering 2014
Suffa Educational Complex, Okara
FSc 2010
Govt. High School, Jaboka, Okara
Matriculation 2008

Final Project

- Designed and developed a smoke and gas leakage detector with alarm and automatic water sprinklers and auto dialing controller system. It was a microcontroller based project. Programming of controller was done in MikroC and simulation on Proteus. Used Arduino Atmega328 to control the rotation and position of servo motor. Project's main power supply was designed which provided 12V DC voltages. Voltage regulator 7805IC was used which converted 12VDC to 5V DC. Different relays were used for the switching. LM358 operational amplifier was used as the comparator and. BD139 NPN transistor was used for the amplification

Term Projects

- Line following robot
- Voltage level detector
- Three phase power supply
- Made digital clock by using pic microcontroller interfaced with LCD
- Binary to 7-segment display by using diodes for switching purpose
- Wireless controlled door bell
- Sensitive optical burglar alarm
- Bridge power audio amplifier
- Multi switch controlled relay
- Digital DC motor speed control

Computer Skills

- MATLAB, Proteus, LabVIEW, CCS, Microsoft Visual Studio (C#), Xilinx, Micro C, AutoCAD, PLC, Java, C++
- Microsoft Office(Word, Power Point, Excel), Windows installation
- Internet, email

Achievements

- Member of Leaders Forum, UMT Lahore
- Member of dramatic club in college
- Captain of football and cricket team of university
- Participated in PLC workshop held in UMT Lahore (2013)

Interests

- Web surfing, gaming, watching news, advanced technology

Ijlal Mujtaba

Address: H. No.91, Sector A, Babur Block, Bahria Town, Lahore.
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Born 1990

Personal Profile

- Tactical, strategic and proactive - anticipates and takes initiative
- Systematic and logical - develops and uses effective processes
- Good listener - caring and compassionate
- Critical thinker - strong analytical skills; accurate and probing
- Good researcher - creative and methodical - probing and resourceful
- Studied Power Electronics, Industrial Electronics, Digital Signal Processing, Digital Electronics and Optoelectronics as elective courses
- **Functional Areas**: Control System and Power Generation

Education and Qualification

University of Management and Technology (UMT), Lahore
BS Electrical Engineering 2014

Divisional Public School, Lahore
FSc 2009

Khanewal Public School, Khanewal
Matriculation 2007

Final Project

Efficient Solar Tracking System: Developed a system that provides cheap electricity generation. Single axis solar tracker was designed to maximize efficiency of the system that moves the panels according to the position of the sun using LDR's, using DC motor, control feedback, panels and an inverter. Designed a buck boost converter that successfully supplies the required voltages to charge the batteries. Designed a cheap inverter using a microcontroller of 500Watts

Term Projects

- Designed a Zener Diode tester that calculated the threshold voltages for all kinds of diodes
- Designed a battery charger to charge cell phones using a few diodes and a transformer
- Designed boost converter that successfully boosts the low voltages to charge a standard battery
- Designed an Auto Night Lamp using high power LEDs which turns on the LED lights interfaced to it at night and it turns off the lights automatically when it is day time
- Variable Power Supply and Charger which help to check or test your electronic projects and also to charge the Mobile phone batteries
- Designed line following robot that used a PIC microcontroller to make decisions to follow the line using signals from IR sensors

Computer Skills

- Proteus, LabVIEW, CCS.
- Microsoft Visual Studio (C#), Xilinx
- Microsoft Office (Word, PowerPoint, Excel)
- Internet, e-mail.
- Photoshop and AutoCAD.
- MatLab

Interests

- Musical instruments, drawing, sketching, repair of motor vehicles engines

Jawwad Tariq

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Born 1991

Personal Profile

- Reliable and dependable, high personal standards and attention to detail
- Good strategic appreciation and vision; able to build and implement sophisticated plans
- Strong planning, organizing and monitoring abilities, an efficient time -manager
- Good interpersonal and communication skills, high integrity
- Seeks and finds good outcomes to challenges
- Studied Digital System Design, Optoelectronics, Telecom Switching, Power Electronics and Digital Electronics as elective courses
- **Functional Areas**: Electrical, Electronics, Power Generation and Control

Education and Qualification

University of Management and Technology (UMT), Lahore
BS Electrical Engineering 2014

The Educators College, Sahiwal
FSc 2009

BISE, Multan
Matriculation 2007

Professional Experience

CDM Smith, Lahore Jan – Feb 2014
Intern
- Prepared electrical procedures for installation test
- Consulted electrical design specifications and technical drawings for installation
- Identified building requirements such as type of cables and voltage required

PTCL, Lahore Aug – Sep 2013
Intern
- Installed all necessary software for broadband network.
- Resolved networking and broadband problems for smooth functioning of internet.
- Maintained complaint reports manually to resolve customer problems

Final Project

- Developed a research report on modern traffic controller, based on density and priority mode to solve the traffic flow issue. The use of private vehicles was getting higher day by day and it was causing problem to traffic controller to monitor the flow. Our signal system would help traffic controllers to easily monitor the overall flow of traffic and its density at several points. Used properly, this system can reduce accidents, provide smooth traffic flow and avoid traffic jams due to emergency services or VIP protocols

Term Projects

- Developed a digital lock which had an electronic control assembly attached with it. It was provided with on access control system. This system allowed the user to unlock the device with a password
- Designed a seven segment display.
- Designed a binary clock which displayed traditional time in the binary format.

Computer Skills

- MultiSim , PSpice, MATLAB, Proteus ,Xilinx, Psim software
- C/C++ Programming, Java, Assembly language
- Microsoft Office (Word, Excel , PowerPoint) Internet, Email

Interests

- Political affairs, research, history, book reading

Jubeir Ahmad Bin Jameel

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Born 1991

Personal Profile

- Results oriented- focused on productive and high-yield activities
- Team-player - loyal and determined
- Task-oriented - commercially experienced and aware
- Good inter-personal and communications skills
- Sound planning and organizational capabilities
- Studied Power Electronics, Industrial Electronics, Digital System Design and Digital Electronics as elective courses
- **Functional Areas**: Electronics, Telecommunication

Education and Qualification

University of Management and Technology (UMT), Lahore
BS Electrical Engineering 2014

British Council, Lahore
Edexcel Advance Level 2010

Gateway College, Rajagiriya, Sri Lanka
Edexcel Ordinary Level 2008

Professional Experience

Millat Equipment Limited, Lahore Aug- Sep 2014
Intern

- Assisted in operations of maintenance department
- Learned motor and transformer windings
- Assisted in the operation of Power Distribution Unit
- Learned WAPDA supply distribution and how power factor could be improved by capacitor banks

Final Project

- Designed Dual Axis Solar Panel Tracker. Tracked the sun on both x and y-axis. Four light dependent resistors were used. Two DC motors were meant for the movement of the mechanical structure on both axis. PIC 16F877 was used in this project whose Port B was used for the display on the LCD and Port D was used for the rotation of motors and Port C was used as the input coming from the LDR's through comparators named as LM324. Tracking was done in order to get maximum efficiency as compared to fixed or mount and Single Axis Tracker system. When the panels were pointed perpendicularly to the sun rays it would produce more energy and as a result increases the overall efficiency of the system

Term Projects

- Rotating LED's
- Real time clock
- BCD counter
- Solar powered street lights
- 5 volt battery charger

Computer Skills

- MATLAB, Proteus, LabVIEW, Microsoft Visual Studio (C), Xilinx
- Microsoft Office (Word, Excel, PowerPoint)
- Turbo C, Verilog, Netbeans, Borland, Proteus
- Internet, e-mail

Achievements

- Appeared in Rector's Honors list twice on scoring 4.00 GPA
- Appeared in Dean's Merit list four times on scoring 3.7 or above GPA

Interests

- Signal and systems, electronic equipments, communication and programming

Kamran Bin Abdus Salam

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Born 1989

Personal Profile	▪ Good interpersonal and communication skills ▪ High integrity and honesty; ethically and socially aware ▪ Energetic and positive outlook, which often inspires others ▪ Calm, reliable and dependable in meeting objectives - logical and numerate ▪ Seeks and finds good outcomes to challenges ▪ Studied Power Electronics, Industrial Electronics, Digital Signal Processing and Digital Electronics as elective courses ▪ **Functional Areas**: Control System, Engineering Management
Education and Qualification	**University of Management and Technology (UMT), Lahore** BS Electrical Engineering 2014 **Government Islamia College, Civil lines, Lahore** FSc 2008 **BISE, Lahore** Matriculation 2006
Professional Experience	**MK Traders, Lahore** Sep 2014 – Present Technical Manager ▪ Assist in work of grid stations and follow ups with international companies **Pak Electron Limited (PEL), Lahore** May - Jun 2011 Intern ▪ Studied NTDA documents ▪ Provided analytical assistance
Final Project	▪ Advance Doppler Radar Speed Gun: The PIC Microcontroller generates a pulse and sends it to the ultrasonic sensor module which transmit it and then receive the deflected signal and after calculating the difference in time, it calculates the speed of the moving object. This device was specially designed for the purpose of controlling the road accidents that are quite common due to over speeding. Another purpose was to propose an idea of implementing a cost efficient speed measuring device on a larger scale, to control the traffic. It could be modified for more range and higher accuracy in order, to make it capable for fast track areas like motorways
Term Projects	▪ Designed a Zener Control Voltage Supply ▪ Developed a F.M Transceiver Module ▪ Designed and developed a Mobile Jammer ▪ Designed a Relay Operated Servo Motor ▪ Designed a binary to 7-segment display by using diodes for switching purpose
Computer Skills	▪ MATLAB, Proteus, LabVIEW, AutoCAD, Xilinx, Micro C, Keil, MultiSim ▪ Microsoft Office (Word, PowerPoint, Excel, Access), Internet, email
Achievements	▪ 6 months working experience in Idyllic Youth Society in Lahore ▪ A year experience in Leading Light Society in Multan ▪ A year experience as a Secretary of Study Aid Foundation for Excellence in Punjab ▪ Organized “Brain Leverage Workshop” at Ambassador Hotel, Lahore
Interests	▪ GUI based applications in embedded system, Digital Systems, Automation

Mian Sheikh Waseem Amjad

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Born 1991

Personal Profile

- Self-driven and self-reliant - sets aims and targets and leads by example
- Good interpersonal skills - works well with others, motivates and encourages
- High integrity, diligent and conscientious - reliable and dependable
- Self-aware - always seeking to learn and grow
- Seeks new responsibilities irrespective of reward and recognition
- **Functional Areas**: Electrical

Education and Qualification

University of Management and Technology (UMT), Lahore
BS Electrical Engineering 2014
The City School Raavi Campus Johar Town, Lahore
Advanced Levels 2010
The City School Raavi Campus Johar Town, Lahore
Ordinary Levels 2008

Professional Experience

Electro-tech Engineering - Defence Lahore
Technical Analyst
SKMH Medical Records Department
Intern Medical Records Management
Saddiq Trade Center, Lahore
Energy Auditor

Final Project

- RC Hover Board (Twin Copter) with Automated Parking and Wireless Charging. The phenomenon of Magnetic Induction was used in order to charge a small battery placed inside the copter (Opened-Up Transformer Idea). The twin copter was designed using wood and was powered up using 30Amp Electronic Speed Controllers, Servo Motors and Brushless DC Motors

Term Projects

- Designed the first POV project in Pakistan. An 8 bit LED array blinking in a sequence on a rotating frame giving an animation or text being displayed in air
- Designed a servo tester using a 555 timer IC
- Designed a 0 to 99 counter using decade counter and counter ICs
- Made a simple inverter using a pair of metal case transistors, heat sinks and CD4047
- Designed an automated gate lamp switch using 555 Timer IC in comparator mode
- Designed a mobile phone controlled gate lock opener
- Designed an electronic lock code circuit (Currently installed in my car for ignition)

Computer Skills

- MATLAB, MikroC PICPROG, PCBExpress, MultiSim, Electronic Assistant 2000, Proteus, Xilinx
- Audacity, Adobe Photoshop CS5, Prezi, GS40 Programmer, USBPicProg
- WinSpice, MultiSim
- Microsoft Office (Word, Excel, Access, PowerPoint), Internet and email
- Windows (95, 98, Millennium, XP, Vista, 7, 8) Installation and Configuration
- Hardware and software troubleshooting

Achievements

- The City School Model (United Nations 2010- 2012), Media Team Director
- UMT, Lahore Chairman IEEE (20132014), Chairman UMT Hobby Club (2012)
- 3rd position in project competition 2010 from Ghulam Ishaaq Khan Institute, Topi
- FAST IEEE Week 2014, 1st position in speed wiring
- COMSATS INNOFEST'14, 1st position in speed wiring

Interests

- English poetry, badminton, research, designing circuits

Mohammad Bilal Maqbool

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Born 1994

Personal Profile

- High integrity and honesty; ethically and socially aware
- Calm, reliable and dependable in meeting objectives - logical and numerate
- Seeks and finds good outcomes to challenges
- Adaptable and flexible; well-organized planner and scheduler
- Seeks new responsibilities and uses initiative; self-sufficient
- Studied Power Electronics, Industrial Electronics, Digital Signal Processing and Communication System as elective courses
- **Functional Areas**: Electrical, Electronics, Telecommunication

Education and Qualification

University of Management and Technology (UMT), Lahore
BS Electrical Engineering 2014

ILM College, Sargodha
FSc 2010

Sargodha Catholic High School
Matriculation 2008

Professional Experience

Safe Life Organization, Sargodha 2011- Present
Public Relation Officer – (Part-time Job)

- Launch awareness campaigns about schooling and funding for disabled children
- Organize blood donation and tax payment campaigns

Governor Institute Network International – NGO, Islamabad Oct 2013
Intern

- Assisted in solving farmer's issues and monitoring water supply in fields

Hero Electrical Company, Sargodha Jul- Aug 2013
Intern

- Assisted in designing of circuits, sockets and switches through Netsin Software
- Assisted in testing of devices

Final Project

- Designed a Micro Hydel Power Plant in order to minimize the electricity crisis in Pakistan. An induction generator and Pelton turbine were used to generate about 1.2 KW from water tanks located in societies. The background of this project was that Macro Plants were working from a very long period but they were insufficient for our needs. We tried our best to make a micro plant and utilized our sources to generate power. No fuel was needed; so, working cost of this project was bearable. This project was also funded by ICT grass root "Ministry of Pakistan"

Term Projects

- Designed a smoke detector and digital car protection lock
- Developed a light sensitive buzzer by using LDRs
- Designed a water level indicator using seven segment display
- Designed a Home – Automation using micro-controller chip
- Developed an Infrared transmitter
- Worked on PLC Trainer, PID Trainer, FM modulator Trainer
- Designed and displayed Welcome to UMT using LED illusion technique

Computer Skills

- MATLAB, Proteus, LabVIEW, Xilinx, MultiSim, AutoCAD, PSpice, C/C++ Programming, Java, Assembly Language
- Microsoft Office (Word, PowerPoint, Excel), Internet, e-mail

Achievements

- Got 1st position in Photo D' Art Competition held at UMT, Lahore
- Got 2nd position in Islamic Quiz Competition held at UMT, Lahore
- Organizer at UMT Convocation and Orientation (2012-14), Lahore

Interests

- Coding, technology, social work

Mohibullah Raja

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Born 1993

Personal Profile

- Sensitive and patient interpersonal and communication skills
- High integrity and honesty; ethically and socially aware
- Results-driven, logical and methodical approach to achieving tasks and objectives
- Seeks and finds solutions to challenges - exceptionally positive attitude
- Great team-worker - adaptable and flexible
- Studied Power Electronics, Industrial Electronics, Digital Electronics and Digital System Design as elective courses
- **Functional Areas**: Electrical, Electronics, Power Generation and Control

Education and Qualification

University of Management and Technology (UMT), Lahore
BS Electrical Engineering 2014

Suffa Educational Complex
FSc 2010

The Educators, Sir Syed Campus Depalpur
Matriculation 2008

Final Project

- Designed and developed a smoke and gas leakage detector with alarm and automatic water sprinklers and auto dialing controller system. It was a micro controller based project. The programming of controller was done in MikroC and simulation on Proteus. We used Arduino Atmega328 to control the rotation and position of servo motor. Project's main power supply was designed which provided 12 VDC voltages. Voltage regulator 7805IC was used which converted 12 VDC to 5 VDC. Different relays were used for the switching. LM358 operational amplifier was used as the comparator and. BD139 NPN transistor was used for the amplification

Term Projects

- Automatic street light
- Frequency counter by using microcontroller
- Led controller
- Electronic combination lock based on PIC
- AutoCAD models
- Made digital clock by using PIC Microcontroller interfaced with LCD
- Binary to 7-segment display by using diodes for switching purpose

Computer Skills

- MATLAB, PLC, WinSpice, Proteus, LabVIEW, Xilinx, speed wiring
- Microsoft Office (Word, PowerPoint, Excel), Windows installation
- Internet, e-mail

Achievements

- Organized events like Teacher's Day, Iqbal day and Independence Day at UMT
- Member of UMT Leaders Forum
- Member of college cricket and football team

Interests

- Painting, interior designing, book reading, research

Mohsin Amin

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Born 1990

Personal Profile

- Self-aware - always seeking to learn and grow
- Great team-worker - adaptable and flexible
- Well-organized, good planner, efficient time-manager
- High integrity and honesty, ethical and socially aware
- Emotionally mature - calming and positive temperament - compassionate and caring
- Studied Power Electronics, Digital System Design, Discrete Signal Processing, Electronic System Design and Telecom Switching and Transmission as elective courses
- **Functional Areas:** Electrical and Electronics, Power Generation and Control

Education and Qualification

University of Management and Technology (UMT), Lahore
BS-Electrical Engineering 2014

Govt. College Township, Lahore
FSc 2009

St. Joseph's High School, Gujranwala
Matriculation 2007

Professional Experience

TransFab (Pvt.) Ltd., Lahore Jul – Aug 2013
Intern

- Assisted in checking transformer turn ratio
- Assisted in checking the losses (core and copper) of transformers
- Assisted in developing production plan of the transformer to maintain production records

Final Project

- Developed a research report and designed a prototype of "Power Generation from Wind Turbine". The idea was to run small loads with the help of wind turbine. Relays were used for the protection of loads. LCD interfacing showed the voltages generated from wind that was stored in the battery. The battery was protected with the help of battery protection circuit.

Term Projects

- Designed water level indicator circuit to detect the rising water level
- Designed two way traffic light controllers with the help of PIC controller
- Designed overcharge battery protection circuit for protecting 12V battery
- Designed battery discharge indicator for showing the discharging level of battery
- Designed Inverter which converted 12V DC into 220V AC by using MOSFET and step up transformer

Computer Skills

- MultiSim, MATLAB, Proteus, Xilinx, PSim software
- C/C++ Programming, Assembly Language, HTML, CSS
- Microsoft Office (Word, Excel, PowerPoint)
- Internet, email

Achievements

- Team member of University badminton team
- Participated in brain clash completion in University
- Participated in C++ coding competition at University

Interests

- Article writing, traveling, badminton, surfing the net for research

	Muhammad Abrar **Present Address:** H. No. 208, St. No. 3, Outfall Road (Ali Hajvery Road) Sharif Park, Sanat Nagar, Lahore **Permanent Address:** Dulchikay P.O Ugoki District Sialkot **Cell:** 0321-6184526 **Email:** abrarmustafa1991@gmail.com Born 1991
Personal Profile	▪ Critical thinker, strong analytical skills, accurate and probing ▪ Self-aware, always seeking to learn and grow ▪ Energetic and physically very fit, quick to respond to opportunities and problems ▪ Calm, reliable and dependable in meeting objectives, logical and numerate ▪ Good inter-personal and communications skills ▪ Studied Power Electronics, Opto Electronics, Digital Electronics ,Digital System Design and Electronic System and Design as elective courses ▪ **Functional Areas**: Control System, Engineering Management
Education and Qualification	**University of Management and Technology (UMT), Lahore** BS Electrical Engineering 2014 **Leadership College, Sialkot** FSc 2010 **The English High School, Sialkot** Matriculation 2007
Final Project	▪ Developed a research report on computer aided manufacturing of CNC router for wood work. Manufactured 3-Axis CNC machine for automatic drilling on wood. It is more accurate and requires less time to execute the job. The hardware part consisted of a bed that could be moved in x-y directions. Two stepper motors were attached with the bed for required movement. Drill machine was attached with the 3rd stepper motor which was used to move it up and down. MACH-3 CNC software was used to generate a drill file and control the three stepper motors to drill at a required location. By using CAD software drill file could be generated and loaded to the process controller software which would execute the job
Term Projects	▪ Used PIC Microcontroller and interfaced it with LCD. Developed a program which could be used to display any statement on LCD ▪ Designed a 12V DC voltage regulator which was very effective in charging devices ▪ Used 7 segment to display the up and down counter using different logic design ▪ Generated beep alarm sound using multi 555 timers ▪ Developed a dark light sensor using light dependent resistor which was capable for switching purposes to ON and OFF the required output
Technical Skills	▪ Familiar with CNC machines basics and their working principals ▪ Know about Programmable Logic Controllers (PLC) and their working phenomena
Computer Skills	▪ MATLAB, Multisim, LabVIEW, Xilinx ▪ Object Oriented Programming, Mikro C, Assembly Language, Eagle Software ▪ Arduino Programming, PLC, PID Trainer, F.M, A.M Trainers, Auto CAD ▪ Microsoft Office (Word, Excel, Power Point,), Internet, email
Achievements	▪ Participated in Programmable Logic Control (PLC) Basic course at PITAC in 2013 ▪ Participated in PLC basics workshops in 2013 at UMT, Lahore
Interests	▪ Innovation, automation, watching technological documentaries, aviation

Muhammad Abuzar

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Born 1991

Personal Profile

- Good interpersonal and communication skills , sensitive and patient
- High integrity and honesty; ethically and socially aware
- Results-driven, logical and methodical approach to achieving tasks and objectives
- Seeks and finds solutions to challenges - exceptionally positive attitude
- Great team-worker, adaptable and flexible
- Studied Power Electronics, Industrial Electronics, Digital Electronics and Digital System Design as elective courses
- **Functional Areas**: Electrical, Electronics, Power Generation and Control

Education and Qualification

University of Management and Technology (UMT), Lahore
BS Electrical Engineering 2014

Unique College, Lahore
FSc 2010

Unique High School, Lahore
Matriculation 2007

Professional Experience

Electrech (Pvt.) Ltd., Lahore Jul – Aug 2014
Intern
- Assisted in the manufacturing of plates used in making of switch gear panels. The plates are the essential components of the switch gear
- Learned by observation the designing of switch gears panels used in developing switch gear hardware

WAPDA, Mangla Dam Power House Jun – Jul 2013
Intern
- Learned by observation the working of grid station, switch gear, switch yards, panels, turbines and motors in power house

Final Project

- Developed a research report on automation of sterilizer using PLC and microcontroller. The report was about sterilization in medical and other industries. GUI interface was used to run the sterilizer properly. The automated parameters were w ater level, temperature and pressure. Designed such a compact design which reduced the steam loss and all processing time was reduced.

Term Projects

- Automatic street light
- Frequency counter by using microcontroller
- Led controller
- Electronic combination lock based on PIC
- AutoCAD models
- Made Digital Clock by using PIC Microcontroller interfaced with LCD
- Binary to 7-segment display by using diodes for switching purpose

Computer Skills

- MATLAB, PLC, Winspice, Proteus, LabVIEW, Xilinx, speed wiring
- Microsoft Office(Word, Power Point, Excel), Windows installation
- Internet, email

Achievements

- Organized events like teachers day, Iqbal days, Independence Day at UMT, Lahore
- Member of UMT Leaders Forum
- Member of college cricket and football team

Interests

- Painting, interior designing, book reading, research

Muhammad Ali

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Born 1992

Personal Profile

- Reliable and dependable - high personal standards and attention to detail
- Identifies and develops opportunities; innovates and makes things happen
- Results-driven, logical and methodical approach to achieving tasks and objectives
- Good interpersonal skills - works well with others, motivates and encourages
- Good starter - enthusiastic in finding openings and opportunities
- Studied Digital System Design, Telecom Switching, Computer Networks, and Engineering Ethics as elective courses
- **Functional areas:** Electrical (Telecom, Electronics)

Education and Qualification

University of Management and Technology (UMT), Lahore
BS-Electrical Engineering 2014

Forman Christian College, Lahore
FSc 2009

Junior Officer High School PCSIR Colony, Lahore
Matriculation 2007

Professional Experience

Wateen Telecom , Head Office Lahore Feb 2014 – Present
Field Support Engineer

- Assign tickets to field engineer as per customer query
- Carry out field visit data to keep the record of CPE up gradation
- Support the field engineer's in trouble shooting

Urban Unit (Contractor of Metro Bus Service), Lahore May – Jun 2013
Intern

- Assigned IP's to CCTV cameras for configuration
- Ensured the smooth working of installed equipments such as mike, cameras, DVD players and IPT at every station of metro bus
- Installed LCD's at server centre for monitoring metro bus movements at every station

Final Project

- Developed a research report and model on "Laser Based Free Space Communication System". This project was about laser based communication system which is one of the forms of optical communications system. It enables communication up to several hundred meters. The three basic elements of the system are Light Emitting Element, Transmission Media and a Light Receiving Element

Term Projects

- Developed a Digital Voting Machine. The machine showed the casting of votes by the voters
- Developed a water level indicator for water tanks. Used LED's to show the water level in tank by different colors indicating different water levels.
- Made a digital clock using FPGA. The working of clock was displayed on FPGA in the form of electrical blinking on LED's

Computer Skills

- Pspice, Matlab, Labview, Autocad, Proteus, Multisim, Xilinx
- Window XP Configuration, installation and trouble shooting
- Microsoft Office (Word, PowerPoint, Excel), Internet, email

Interests

- Electronic equipments, computer technology, innovation, cricket

Muhammad Ammar Shoaib

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Born 1985

Personal Profile

- Self-aware - always seeking to learn and grow
- Well-organized, good planner; efficient time-manager
- High integrity and honesty, ethical and socially aware
- Critical thinker - strong analytical skills, accurate and probing
- Emotionally mature - calming and positive temperament - compassionate and caring
- Studied Digital logic Design, Power Electronics, Computer Networks, and Digital Electronics as elective course
- **Functional Areas**: Electronics, Power Generation and Control, IT Core Engineering

Education and Qualification

University of Management and Technology (UMT), Lahore
BS Electrical Engineering 2014

Govt. College of Technology, Raiwind Road, Lahore
DAE (Electrical) 2009

Govt. High School, Sheikhupura
Matriculation 2001

Professional Experience

Western Computers, Lahore Jul – Sep 2009
Lab Engineer

- Worked on BTN-500W, Power-Com 1KW boards and did troubleshooting and installations
- Worked at Allama Iqbal Open University (Rawalpindi) Chemistry Research Department, R.T.O (Dara Adda -Multan) and R.T.O (Lahore). Installed 10KW and 15KW Power-Com UPS Units with battery banks and get them operational on site

Bin Hafeez Electrical Traders, Lahore Oct 2006 – Apr 2009
Electrical Contractor

- Assisted labor in electric installation at site
- Installed conduits, distribution boards, electrical accessories boxes and wiring with proper work plan and load calculations

Final Project

Designed Anti-Lock Braking System by Using Control Area Network (CAN) Protocol

- PCB designing of complete project
- Installing and troubleshooting project components

Term Projects

- Designed and simulated, 3-phase full wave inverter.
- Made boost convertor which converted 12 volt DC to 48 volt DC
- Programmed and implemented digital clock on FPG (Field Programmable Gates) by using Xilinx software

Computer Skills

- MultiSim ,Pspice, MATLAB, Proteus ,Xilinx, Psim ,LabVIEW , PL C (Programmable logic controller), PCB Designing, AutoCAD (Electrical)
- Sufficient command on CLI of CISCO Switches and Routers to configure them to make VLAN's Trucking, static routing and dynamic routing using different protocols according to their network topologies
- Microsoft Office (Word, Power Point, Excel)
- C/C++ Programming, Java, Assembly language

Achievements

- Doing certification in CCNA and CCNP from CORVIT institute (Pvt.), Lahore.
- Participated in under 19 hockey tournament held in Sheikhupura Hockey Stadium

Interests

- IT, teaching, electronic circuits troubleshooting, current affairs, traveling

Muhammad Ateeq-Ur-Rehman

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Born 1994

Personal Profile

- Identifies and develops opportunities; innovates and makes things happen
- Seeks and finds good outcomes to challenges
- Good interpersonal skills - works well with others, motivates and encourages
- Great team-worker - adaptable and flexible
- Seeks and finds solutions to challenges - exceptionally positive attitude
- Studied Industrial Electronics, Power Electronics, Digital Signal Processing, Electronic System Design and Digital System Design as elective courses
- **Functional Areas:** Circuit Analysis, Control System

Education and Qualification

University of Management and Technology (UMT), Lahore
BS Electrical Engineering — 2014

Govt. Shalimar College Baghbanpura, Lahore
FSc — 2010

Arqam House Public Boys High School, Lahore
Matriculation — 2008

Professional Experience

Mangla Power Station, Mangla — Jun – Aug 2013
Intern
- Studied different types of motors, generators, runners and their installation criteria
- Worked in the switchyard and managed breakers and isolators
- Visited spillway and learned the factors on which irrigation department controlled water storage

Asif Electricals, Lahore — Aug – Sep 2013
Intern (UPS factory)
- Studied working of UPS, its basic structure, circuits, winding and repairing

Final Project

- Implemented a high performance frequency and phase synthesizer using same frequency with different phases on FPGA. Electronic and communication equipments required certain frequencies for their operation, which using multiple oscillators was not a feasible solution, so proposed a frequency synthesizer, which was very useful as it could generate frequencies from 3.125MHz to 100MHz. As range of DDFS was very small, if we used DDFS with our proposed synthesizer, range of DDFS could also be increased. Basic idea was to use a single frequency clock but with multiple phases. A specially designed VCO was required but we had used a ring counter to generate multiple clocks of same frequency, each with different phases. In short, implementing DFS had very wide bandwidth and output frequency was much greater than system clock

Term project

- Water level indicator using pic microcontroller which was very effective in measuring water level along with low level indication alarm
- Transistor tester in which we tested the PNP and NPN transistor, to check if the transistor was working or not
- Line following robot using pic16f877a which worked by using IR sensors and LEDs, the microcontroller made the decision to follow black line with respect to the white background.
- Voltage level indicator which was very effective in measuring DC volts of battery and used in many other applications
- Variable current and voltage power supply which was capable of delivering up to 15V and 2 amperes

Computer Skills

- C, Micro C, MATLAB, LabVIEW, AutoCAD
- Microsoft Office(Word, Power Point, Excel), Internet, email

Interests

- Gaming, reading, internet surfing, cricket

Muhammad Bilal Umar Arif Ch.

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Born 1991

Personal Profile	▪ Results-driven, logical and methodical approach to achieving tasks and objectives ▪ Well-organized; good planner; efficient time-manager ▪ Task-oriented, commercially experienced and aware ▪ Good inter-personal and communications skills ▪ High integrity and honesty; ethical and socially aware ▪ Studied Power Electronics, Industrial Electronics, Computer Networks, Wireless Communication and Digital System Design as elective courses ▪ **Functional Areas**: Control System, Telecommunication, Computer Networking
Education and Qualification	**University of Management and Technology (UMT), Lahore** BS Electrical Engineering 2014 **Crescent Model Higher Secondary School, Lahore** FSc 2009 **Garrison Boys High School, Lahore Cantonment** Matriculation 2007
Professional Experience	**Saad Electronics, Lahore** Jan 2014 – Present Lab Incharge ▪ Provide computer and cell phone hardware and software solutions ▪ Design and manufacture UPS and generator automated kits/ATS Panels **PTCL, Lahore** Jul – Sep 2012 Intern ▪ Assisted in transmission, switching and PIE (Pakistan Internet Exchange) ▪ Assisted in telnet and INMS and splicing of fiber optics through OTDR meter
Final Project	▪ Designed a Wirelessly Controlled Navigation of 18 DOF Six-Leg Hexapod Robot using a PS2 Controller. The robot was made to serve the purpose of saving human lives in life threatening situations; it can reach places where the size of the human beings limits their potential. The design of the robot was inspired from insects due to their ability to navigate in uneven places. The hexapod is capable of providing 18 DOF, 3 DOF per leg due to the use of 3 servo motors on each leg. The robot's every motion was controlled through a PS2 controller. The robot was capable of providing wired as well as wireless control
Term Projects	▪ Designed a GSM based car control system through DTMF ▪ Designed a GSM based home automation ▪ Designed a PLC based motor control system ▪ Designed and fabricated Digital Clock/Stopwatch (logic gates) ▪ Designed an FPGA Digital Clock
Computer Skills	▪ MATLAB, Arduino, MikroC for PIC, MPLab, PCSpim , Xilinx ISE ▪ **Networking:** Packet Tracer, Putty, HyperTerminal ▪ **Electronics:** PSpice, PSim, Proteus, NI Multisim, Simulink, LabVIEW ▪ **Designing/Editing**: AutoCAD, Adobe Photoshop, ▪ **Office Applications:** MS Excel, PowerPoint, Word, Adobe Acrobat ▪ **Programming Languages:** Cisco IOS, C, C++, Assembly, VHDL, MIPS32
Achievements	▪ Got 1st position in 13th All Pakistan Inter Colleges/Universities Computer Project Exhibition and Competition (COMPPEC 2014) held at NUST in June 2014 ▪ Organized inter university competition Techno-Fiesta in 2014 at UMT, Lahore ▪ Won 1st position in circuit designing and wiring in 2014 at COMSATS, Lahore
Interests	▪ Internet surfing for research, communication technologies, traveling, sports

Muhammad Haseeb Mushtaq

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Born 1991

Personal Profile

- Reliable and dependable - high personal standards and attention to detail
- Strives for quality and applies process and discipline towards optimizing performance
- Methodical approach to planning and organizing, efficient time-manager
- Good interpersonal skills, works well with others, motivates and encourages
- Well-organized, good planner
- Studied Wireless Communication, Computer Networks, Digital Signal Processing, Power Electronics and Industrial Electronics as elective courses
- **Functional Areas:** Telecommunication

Education and Qualification

University of Management and Technology (UMT), Lahore
BS Electrical Engineering 2014

Islamia College Civil Lines, Lahore
FSc 2010

Moon Public High School, Lahore
Matriculation 2007

Final Project

- Developed a research report and designed an Intelligent Load and Power Sources Management using Wireless Sensor Network. Utilized two power sources which are AC main and solar power. It detected solar power intensity and used it for charging batteries. At time of load - shedding power automatically switches from main source to backup utilizing stored power hence minimizing electricity bills smartly. Also designed a wireless sensor network for detecting human presence in room for automatic switching of appliance. This cuts off major misuse of energy. An interface was also provided for monitoring voltage and power usage in every room

Term Projects

- Designed temperature controller by using thermistor.
- Designed Mini F1 race track grid start lights circuit using PIC microcontroller
- PWM Modulator and De-modulator for sending message

Computer Skills

- MATLAB, Arduino, PCSpim
- Networking: Packet Tracer
- Electronics: Proteus, Multisim, Simulink, LabVIEW
- Designing/Editing: AutoCAD
- Office Applications: MS Excel, PowerPoint, Word
- Programming Languages: Cisco, C, Assembly

Achievements

- Volunteer in Techno Fiesta 2014 at UM T, Lahore
- Member of IEEE
- Team member of university cricket team

Interests

- Mathematics, current affairs, sports, computer technology

Muhammad Ijaz Sadiq

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Born 1993

Personal Profile	▪ Determined and decisive; uses initiative to meet and resolve challenges ▪ Strives for quality and applies process and discipline towards optimizing performance ▪ Reliable and dependable in meeting objectives - hard-working ▪ Active and dynamic approach to work and getting things done ▪ Seeks new responsibilities and uses initiative; self-sufficient ▪ Studied Power Electronics, Industrial Electronics, Digital Signal Processing and Digital Integrated Circuit as elective courses ▪ **Functional Areas**: Electrical, Electronics
Education and Qualification	**University of Management and Technology (UMT), Lahore** BS Electrical Engineering 2014 **Punjab College, Lahore** FSc 2010 **BISE, Lahore** Matriculation 2008
Professional Experience	**Nishat Chunian Power Plant, Chunian** Jun –Jul 2013 Intern ▪ Assisted in testing the smoke detector in plant to prohibit any accident by smoke ▪ Learned the working of buckle relay for the proper working of transformer
Final Project	▪ Developed a research report and designed a circuit to control the speed of induction motor at variable load by close loop method. In the first step, we used a variable resistor to control the speed of induction motor by open loop circuit. In the second step, we used a sensor to sense the speed of induction motor at variable load and accordingly increase or decrease the voltage by PIC microcontroller. In designing the circuit we used PIC microcontroller which generated PWM signals which were transmitted to BJT's to increase or decrease the voltage at variable load. We could use this method in different factories and industries in which the constant speed of induction motor is very important. We can use this method in paper mills, oil refineries and for the drive of conveyor belt at airports
Term Projects	▪ Developed and designed a mobile phone signal detector to detect the presence of mobile phone signals in any specific area. It could be used for security purposes and by mobile phone companies ▪ Developed and designed a variable power supply (18-25 Volts). ▪ Designed and developed a digital clock by programming micro controller. The results were displayed on LCD
Computer Skills	▪ MATLAB, Proteus, PSpice, MikroC, LabVIEW, MultiSim, Borland, Net Beans, MPlab, Winspice, AutoCad ▪ Microsoft Office(Word, PowerPoint, Excel) ▪ Win Xp, Win 7, Win Vista, Win 8, Internet, Email
Achievements	▪ Participated in PLC and MATLAB workshops in 2014 at UMT, Lahore ▪ Member of university and college cricket team ▪ Worked as stage secretary in different event at school level
Interests	▪ Cricket, research, religion, mathematics

Muhammad Imran

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Born 1990

Personal Profile

- Extremely reliable and dependable - analytical and questioning, strives for quality
- Creative and entrepreneurial networker - effective project coordinator
- Solid approach to achieving tasks and objectives; determined and decisive
- Self-aware, always seeking to learn and grow
- Good interpersonal and communication skills, sensitive and patient
- Studied Telecommunication and Switching, Power Electronic, Digital System Design, Electrical Network Analysis, Electric System Design and Industrial Electronics as elective courses
- **Functional Areas**: Electrical, Electronics

Education and Qualification

University of Management and Technology (UMT), Lahore
BS Electrical Engineering 2014
Govt. College of Technology, Multan
DAE (Electrical) 2009
BISE, DG Khan
Matriculation 2005

Final Project

- Developed a research report and designed an intelligent automobile kit. It consisted of 4 modules:-
  Module 1: CNG Level Detector
  Module 2: Tyre Pressure Monitoring System
  Module 3: Automatic A.C Blower Control
  Module 4: CNG Leakage detection
  - Used microcontroller to control the entire system
  - LCDs were used to display data
  - Voltage controlling ICs 7305, 7312 were used to control the voltage
  - Used GSM to send message to car owner
  - Used BLDC motor to control AC blower

Term Projects

- Designed traffic signals using 555 timer and FPGA
- Designed a voice detector using a mike as input and LED for output display. It detected the specific voice such as of hand clap and the results were shown by the glow of LED light. It could be used to switch on light and switch gears on large scale.
- Designed a buck boost converter which converted 5 V to 12 V by using flip flops.
- Designed digital clock by using 7 segment displays by FPGA using Xilinx software.

Computer Skills

- MultiSim ,PSpice, MATLAB, Proteus ,Xilinx, Psim software
- C/C++ Programming, Java, Assembly language
- Microsoft Office (Word, Excel, PowerPoint)

Achievements

- Participated in workshop on PLC in 2012 at UMT, Lahore
- Worked for flood victims in Muzafargarh and Kot Addu in 2010
- Participated in debates competition at school level

Interests

- Health care, law, religion, politics

Muhammad Imran

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Born 1991

Personal Profile	▪ Determined and decisive, uses initiative to meet and resolve challenges ▪ Extremely reliable and dependable - analytical and questioning, strives for quality ▪ Good interpersonal skills - works well with others, motivates and encourages ▪ Self-aware - always seeking to learn and grow ▪ Good listener - caring and compassionate ▪ Studied Digital Signal Processing, Power Electronics, Industrial Electronics, Communication System and Telecom Switching as elective courses ▪ **Functional Areas**: Electrical, Electronics, Power Generation and Control
Education and Qualification	**University of Management and Technology (UMT), Lahore** BS Electrical Engineering 2014 **Superior College, Faisalabad** FSc 2009 **WAPDA Boys High School, Faisalabad** Matriculation 2007
Final Project	▪ Developed a research report on fuel monitoring system and cost optimization in cellular networks at BTS. The main components of this project were: Microcontroller AT89C52, GSM, Sensors, LCD Display, Database and GUI, Power supply. Three sensors were used. First sensor was used to check fuel level in generator fuel tank. Second sensor was used to check whether BTS (Base Terminal Station) was running on WAPDA power supply or it was running on generator supply. Third sensor was used to check whether the generator was loaded or unloaded. LCD's were showing data on site as well as on main terminal to make appropriate decisions about fuel consumption at the BTS
Term Projects	▪ Designed traffic light signals using gates ▪ Implemented Local Area Network which connected all blocks of a university ▪ Designed a mobile phone charger ▪ AC to DC power converter ▪ Running servo motor using PWM
Computer Skills	▪ Linux, Windows, Mac ▪ Familiar with C, C++, Mat lab and Verilog ▪ MS Office, PowerPoint, Word, Excel, Outlook ▪ GSM (2G), GPRS, UMTS (3G), LTE (4G), LAN, WAN, TCP/IP ▪ Proteus, Micro C, LabVIEW
Achievements	▪ Won 2nd prize in inter university essay writing competition at UMT, Lahore ▪ Captain of runners up cricket team in 2011-12 at UMT, Lahore ▪ Captain of winning cricket team and 2 times Man of the Match in 2005-2006 at college ▪ Passed 6.002x Circuits and Electronics offered by Edx an online exam ▪ 1st position in quiz competition during annual school carnival ▪ 1st two positions in all classes throughout high schooling
Interests	▪ Sports, poetry, political news, religion

Muhammad Izan

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Born 1991

Personal Profile

- Strong planning, organizing and monitoring abilities - an efficient time manager
- Self-driven and self-reliant - sets aims and targets, and leads by example
- Good interpersonal skills - works well with others, motivates and encourages
- High integrity, diligent and conscientious - reliable and dependable
- Seeks and find solutions to challenges-exceptionally positive attitude
- Studied Digital Communication, Wireless Communication, Digital Signal Processing and Communication System as elective courses
- **Functional Areas**: Wireless communication, Engineering Management

Education and Qualification

University of Management and Technology (UMT), Lahore
BS Electrical Engineering 2014

Government College University, Lahore
FSc (Pre-Engineering) 2009

Crescent Model Higher Secondary School, Lahore
Matriculation 2007

Professional Experience

Huawei, Lahore Sep 2014 - Present
Intern

- Configuring MSC with main BTS using wireless communication network
- Base transceiver station installation

Final Project

- Worked on Wifi communication links with a prototype and implemented it practically. Signalling protocols were established between the router and the unmanned ground vehicle. The main purpose was surveillance and a mast camera was mounted on it. Audio video communication provided us to avoid the obstacles. Ethernet board played the key role of internet protocols; that had been made possible by bringing all the communications onto one platform and then programming the microcontroller and the GUI to use that link for operation. Using Wi-Fi as the sole communication platform. It enabled the platform to have multiple users and the network

Term Projects

- Made a line following robot using mobile phone as a transmitter signal end
- Designed matlab coding to encode and decode the data
- Modulation in digital communication coding
- Binary to 7-segment display by using diodes for switching purpose
- Solar charging backup battery with LED display

Computer Skills

- MATLAB, Proteus, LabVIEW, CCS, Microsoft Visual Studio (C#), Xilinx
- Microsoft Office(Word, PowerPoint, Excel), Adobe Photoshop
- Internet, e-mail

Achievements

- Member of IEEE Telecommunications Branch
- President of UMT sector of IEEE Telecommunication
- President Photography Club for two years

Interests

- Innovation ,Wireless based system, Internet protocols, event management

Muhammad Jawar-Ul-Hassan

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Born 1991

Personal Profile	▪ Seeks and finds solutions to challenges - exceptionally positive attitude ▪ Great team-worker - adaptable and flexible ▪ Well-organized; good planner; efficient time-manager ▪ Seeks new responsibilities and uses initiative; self-sufficient ▪ Solid approach to achieving tasks and objectives; determined and decisive ▪ Studied Power Electronics, Industrial Electronics, Digital Signal Processing and Communication System as elective courses ▪ **Functional Areas:** Control System, Engineering Management
Education and Qualification	**University of Management and Technology (UMT), Lahore** BS Electrical Engineering 2014 **Islamic College Civil Lines, Lahore** FSc 2009 **Eden Glim Public High School, Lahore** Matriculation 2007
Final Project	▪ Designed three phase pure sin wave inverter. Used SPWM technique modulation. It is based upon conventional six switches three phase inverter. The yield voltage waveform of perfect inverter is ought to be sinusoidal, but the waveform of practical inverter is non-sinusoidal and holds harmonics. To overcome this drawback, we design this project, it ought to get closer sinusoidal waveform.
Term Projects	▪ Made Room temperature sensor which detect the temperature and turn on and turn off the fan accordingly ▪ Designed a digital DC voltmeter which was very effective in measuring DC volts of battery and in many other applications ▪ Binary to 7-segment display by using diodes for switching purpose. By giving binary input through push buttons in circuitry, it changed this binary input into seven segment display. ▪ Implemented the 4 way traffic light using LED's and 555 Timer ▪ Designed and implemented the power supply
Computer Skills	▪ MATLAB, Proteus, LabVIEW, Multi-sim, C Language, AutoCAD ▪ Microsoft Office(Word, Power Point, Excel) ▪ Internet, email
Achievements	▪ Appeared in Dean's Honors List in 2012 at UMT, Lahore ▪ Got 50% merit base scholarship from UMT on securing good marks in FSc
Interests	▪ Electrical transmission, digital systems, automation, electrical machines

Muhammad Khalid Hassan

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Born 1990

Personal Profile	▪ Self-aware - always seeking to learn and grow ▪ Well-organized, good planner; good time-manager ▪ High integrity and honesty, ethical and socially aware ▪ Emotionally mature - calming and positive temperament - compassionate and caring ▪ Studied Power Electronics, Digital System Design and Computer Network as electives ▪ **Functional Areas:** Electrical, Electronics, Networking.
Education and Qualification	**University of Management and Techno logy (UMT), Lahore** BS Electrical Engineering 2014 **KIPS College, Lahore** FSc 2009 **The Punjab School, Lahore** Matriculation 2007
Final Project	▪ Developed a research report on Synergy Exemplar of electrical and mechanical concepts in generation of electricity. This project generated energy from inclined plates placed on roads by using electronic gadgets and gear arrangement. When the vehicle moved over the inclined plates, plates were pushed in downward direction. This movement forces the crank and g ear type mechanism fitted to a ratchet-wheel type mechanism which in turn rotates a geared shaft loaded with recoil springs. The output of this shaft was coupled to a dynamo to convert kinetic energy into electricity
Term Projects	▪ Digital calculator ▪ Battery charger ▪ Water level detector using AVR microcontroller ▪ Buck Boost Regulator Designing
Computer Skills	▪ MultiSim, Pspice, MATLAB, Proteus, Xilinx, Psim software ▪ C/C++ Programming, Java, Assembly language ▪ Microsoft Office(Word, Power Point, Excel)
Achievements	▪ Participated in AVR training course (2012) at UMT, Lahore ▪ Participated in PLC training course (2012) at UMT, Lahore
Interests	▪ Technology, creative-writing, swimming, video games

Muhammad Mohib Bin Jabbar

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Born 1992

Personal Profile

- Great team-worker - adaptable and flexible
- Good starter - enthusiastic in finding openings and opportunities
- Good listener - caring and compassionate
- Energetic and physically very fit; quick to respond to opportunities and problems
- Seeks new responsibilities and uses initiative; self-sufficient
- Studied Power Electronics, Opto Electronics, Digital Electronics, Digital System Design and Electronic System and Design as elective courses
- **Functional Areas**: Control System, Engineering Management

Education and Qualification

University of Management and Technology (UMT), Lahore
BS Electrical Engineering 2014

Fazaia Degree College, Kamra
FSc 2010

Fazaia Degree College, Kamra
Matriculation 2008

Final Project

- Developed a research report on computer aided manufacturing CNC router for wood work. Manufactured 3-Axis CNC machine for automatic drilling on wood. It would be more accurate and require less time to execute the job. The hardware part consisted of a bed that could be moved in x-y directions. Two stepper motors were attached with the bed for required movement. Drill machine was attached with the 3rd stepper motor which was used to move it up and down. MACH-3 CNC software was used to generate a drill file and control the three stepper motors to drill at a required location. By using CAD software drill file could be generated and loaded to the process controller software which would execute the job

Term Projects

- Used PIC Microcontroller and interfaced it with LCD. Developed a program which could be used to display any statement on LCD
- Designed a 12V DC voltage regulator which was very effective in charging devices
- Used 7 segment to display the up and down counter using different logic design
- Generated beep alarm sound using multi 555 timers and studied their applications
- Developed a dark light sensor using light dependent resistor which was capable for switching purposes to turn on and off the required output

Technical Skills

- Familiar with CNC machines basics and their working principals
- Know about Programmable logic controllers (PLC) and their working phenomena

Computer Skills

- MATLAB, Multisim, LabVIEW, Xilinx
- Object Oriented Programming, Mikro C, Assembly Language, Eagle Software
- Arduino Programming, PLC, PID Trainer, F.M, A.M Trainers, Auto CAD
- Microsoft Office (Word, Excel, Power Point,), Internet, email

Achievements

- Participated in PLC basics workshops in 2013 at UMT, Lahore
- Participated in foot ball matches at UMT, Lahore

Interests

- Football, traveling, mathematics, engineering documentaries

Muhammad Nabeel Asim

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Born 1991

Personal Profile

- Strong planning, organizing and monitoring abilities, an efficient time-manager
- Results-driven, logical and methodical approach to achieving tasks and objectives
- Seeks and finds solutions to challenges - exceptionally positive attitude
- Identifies and develops opportunities; innovates and makes things happen
- Great team-worker - adaptable and flexible
- Studied Power Electronics, Industrial Electronics, Digital Signal Processing, Digital Electronics and Electronics System Design as elective courses
- **Functional Areas**: Control System, Engineering Management

Education and Qualification

University of Management and Technology (UMT), Lahore
BS Electrical Engineering 2014
Superior College, Okara
FSc 2009
Government Higher Secondary School, Renala Khurd, Okara
Matriculation 2007

Professional Experience

University of Management and Technology (UMT), Lahore Sep 2012 – Jun 2014
Teacher Assistant

- Assisted the resource person in developing and evaluating quizzes and assignments to prepare final mark sheet

Mitchell's Factory, Renala Khurd, Okara Jun – Jul 2013
Intern

- Assisted in the repair and maintenance of sensors and different machines for the smooth operations of mitchell's plant
- Learned the working of plant by PLC module to enhance efficiency

Final Project

- Constructed a GSM Based Real time Data Logging and Control System using PIC (Microcontroller) and Sim900D GSM module. It was a "Remote site Safety and Security Application developed by using Micro-Controller". System was able to read data sensors and then analyze and graphically present that data to the user and to display the data to the operator so that he can comprehend what was going on with the process. The system was able to control via GSM Module instead of a PLC. Operator could manage the plant from anywhere. Data logging introduced in this project was helpful for solving problems as well as providing information to improve the process and production as it was very economical as compared to other control systems (PLC etc.)

Term Projects

- Designed line following robot which worked by using signals from IR sensors.The microcontroller made decision to turn right/left to follow the line
- Designed a radio frequency jammer
- Designed a mobile phone detector which detected the signal of mobile phone in any specific area
- Designed 5 Volts and 12 Volts power supply which could be used in different machines

Computer Skills

- MATLAB, Proteus, PSpice, MikroC, LabVIEW, MultiSim, Borland, Net Beans
- Microsoft Office (Word, Power Point, Excel), Adobe Photo Shop, CoralDraw, etc.
- Internet, email

Achievements

- Participated in workshop on PLC in 2013 at UMT, Lahore
- Received best performance award in sports at provincial level

Interests

- Foot ball, technology, programming in C language, music

Muhammad Naeem Sohail

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Born 1991

Personal Profile	▪ Determined and decisive; uses initiative to meet and resolve challenges ▪ Reliable and dependable in meeting objectives – hard working ▪ Strives for quality and applies process and discipline towards optimizing performance ▪ Active and dynamic approach to work and getting things done ▪ Seeks new responsibilities and uses initiative; self-sufficient ▪ Studied Digital Signal Processing, Power Electronics, Industrial Electronics, and Digital Integrated Circuit as elective courses ▪ **Functional Areas**: Electrical, Electronics
Education and Qualification	**University of Management and Technology (UMT), Lahore** BS Electrical Engineering 2014 **Govt. College of Technology, Sahiwal** DAE 2010 **IPS, Arifwala** Matriculation 2007
Final Project	▪ Developed a GSM based project to monitor and control the voltage, current and temperature of the load (Geyser was used as a load). Micro-controller was used to monitor these parameters. Sensors provided the values to the microcontroller; these values were uploaded to the website which could be monitored globally. Whenever fault occurred or the value of current, voltage and temperature deviated from the ideal value,microcontroller turned the device OFF and send the alarming values to the remote person through SMS. The monitoring system could be used to detect the over/under current and voltage conditions, observed the circuit breakers, and recorded all the values. The conveyor systems, time management and the quality of the process could be controlled and monitored through this system
Term Projects	▪ Traffic Light Model ▪ Transistor Tester: To verify all pins of transistor ▪ Water level Sensor: By using microcontroller, the sensor sensed the water level and run/stop water motor automatically for filling water tank ▪ Temperature sensor: LCD display was used to show the temperature. ▪ Developed a mobile phone signal detector
Computer Skills	▪ Microsoft Office (Word, Excel, PowerPoint), Borland, Net Beans, AutoCAD ▪ MikroC PIC microcontroller programming, MPLAB, MATLAB, W inSpice, Electric (Java) Software
Achievements	▪ Appeared in Dean's Merit list on scoring highest GPA in BS -EE at UMT, Lahore ▪ Received 50% fee scholarship in the university ▪ Member of university and college cricket team ▪ Participated in PLC and MATLAB worksho ps at university
Interests	▪ Cricket, research, religion, mathematics

Muhammad Numan

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Born 1992

Personal Profile

- Determined and decisive, uses initiative to develop effective solutions to problems
- Reliable and dependable, high personal standards and attention to detail
- Identifies and develops opportunities, innovates and makes things happen
- Determined and decisive; uses initiative to meet and resolve challenges
- Methodical approach to planning and organizing - good time-manager
- Studied Power Electronics, Industrial Electronics, Digital Signal Processing and Communication System as elective courses
- **Functional Areas**: Control System, Engineering Management, Computer Technology

Education and Qualification

University of Management and Technology (UMT), Lahore
BS-Electrical Engineering 2014

Dar-e-Arqam College, Sargodha
FSc (Pre-Engineering) 2010

Dar-e-Arqam School BISE, Sargodha
Matriculation 2008

Professional Experience

PTCL, Sargodha Aug – Sep 2013
Intern
? Assisted in operation of power generation by using diesel engines in power house

Shakarganj Sugar Mills, Jhang Jul – Aug 2013
Intern
- Assisted in the operation of router handling in wireless department

Final Project

- Developed a closed loop system using Frequency Looked Loop (FLL) technique that comprised of PWM, feedback loop, AVR programming and GUI interfacing for the protection and controlling the speed of DC motor.

Term Projects

- Designed a Propeller Clock by using PIC16F628, 7 Diffuse LEDs, C Language program. It gave its output by rotation through motor which showed characters
- Designed a Light Detective Alarm by using 555 Timer, LDR.
- Designed a Clock on FPGA. It gave output on 7-Segment.
- Designed a Keyboard Interfacing by using FPGA. When we ran the assembly language code on FPGA and pressed the button on keyboard then FPGA showed this character on 7-Segment

Computer Skills

- MultiSim, PSpice, MATLAB, Proteus, Xilinx, Psim and AVR software
- C/C++ Programming, Java, Assembly Language, AUTO CAD
- MS-Office (Word, Excel, PowerPoint)

Achievements

- Organized PLC workshop and AVR Workshop in 2014 at UMT, Lahore
- Participated in Techno Fiesta Competition held in 2014 at UMT, Lahore
- Participated in quiz competition held in 2013 at UMT, Lahore

Interests

- Research, book reading, poetry, gymnastic

Muhammad Sahaab Hassan

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Born 1989

Personal Profile	▪ Determined and decisive; uses initiative to develop effective solutions to problems ▪ Methodical and rigorous approach to achieving tasks and objectives ▪ Good strategic appreciation and vision; able to build and implement sophisticated plans ▪ Extremely reliable and dependable - analytical and questioning, strives for quality ▪ High integrity, diligent and conscientious - reliable and dependable ▪ Studied Optoelectronics, Industrial Electronics, Digital Signal Processing, Digital System Design and Communication System as elective courses ▪ **Functional Areas**: Electrical, Electronics
Education and Qualification	**University of Management and Technology (UMT), Lahore** BS Electrical Engineering 2014 **Faran Model College, Jhang** FSc 2008 **Faran High School, Jhang** Matriculation 2006
Professional Experience	**Shakar Gunj Sugar Mills, Jhang** Jun - Jul 2009 Intern ▪ Assisted in the programming of PLC to operate electrical instruments ▪ Assisted in the designing of distribution board to control load and power balancing ▪ Assisted in installation of 3G technologies in Telenor to enhance network speed
Final Project	▪ Designed and implemented a heliostat (a solar tracker system) which could be used to track the sun light without using any sensor. This system was totally programming based. The motors were used to control the tracker stand which was operated by PIC microcontroller. The system was user friendly and easy to install. The user had to just enter time and date and the system start tracking the sun. It had a temperature sensor and voltage sensor to measure the temperature and voltage of the solar panel. It had a dual axial motion which maximize the reflection of sun on the panel
Term Projects	▪ Designed servo motor controlling using photo sensor. It could be used to control the motion of a servo motor forward and backward ▪ Designed an automatic traffic control system with seven segment using PIC. It could be used to control traffic signal according to time delay ▪ Designed a digital volt meter using PIC Controller. It could be used to measure the voltage and displayed the data on LCD ▪ Designed a cell phone call detector to detect the high intensity of signals and displayed the results on a LED ▪ Designed an FM Transmitter. It converted the voice signals into FM signals and transmitted the voice data to air
Computer Skills	▪ MATLAB, Proteus, MPLAB, PIC MicroC, LabVIEW, Microsoft Visual C++, Xilinx ▪ Microsoft Office(Word, Power Point, Excel) ▪ Internet, Email
Achievements	▪ Participated in workshop on PLC programming in 2012 at UMT, Lahore ▪ Participated in workshop of AVR micro controller and MATLAB in 2012 at UMT, Lahore
Interests	▪ Sports, computer programming, internet surfing for research, digital systems

Muhammad Shoaib

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Born 1985

Personal Profile

- Determined and decisive, uses initiative to develop effective solutions to problems
- Excellent interpersonal and communication skills, leadership, high integrity
- Strong planning, organizing and monitoring abilities, an efficient time-manager
- Seeks and finds solutions to challenges - exceptionally positive attitude
- Great team-worker, adaptable and flexible
- Studied Power Electronics, Industrial Electronics, Digital System and Design and Electric Network Analysis as elective courses
- **Functional Areas**: Electrical, Electronics, Automation, Machine Control Systems

Education and Qualification

University of Management and Technology (UMT), Lahore
BS Electrical Engineering 2014
Muhammad Amin Poly Technical College, Lahore
DAE (Electronics) 2008
Govt. High School, Allam Iqbal Town, Lahore
Matriculation 2002

Professional Experience

Free Lancer Sep 2009 to Present
Electrical Engineer

- Designed and executed a bio gas plant automation system using PLC and SCADA Programming resulting in generation of pure natural gas from bio gas.
- Computerized the asphalt and concrete batching plant by using PLC and SCADA programming which resulted in high quality asphalt and concrete mixed products.
- Launched CIP and automated syrup tank system in Coca Cola, Gujranwala, resulting in the improved efficiency of plant.

Final Project

- Developed a research report and converted a manual system to automated system of an Intelligent Grain Storage Handling for flour mills and feed mills. The whole process from inception to final product was automated using PLC microcontroller, SCADA software in VB, NET and SQL database system. It was a web based online control system which could be monitored through a web site: http://fyproject.co.nr. All work stations were connected to the main server through WIFI which enhanced the efficiency of the system

Term Projects

- Designed PLC based traffic light system and motor control system
- Designed PLC and HMI based sorting system
- Designed PLC and RFID based door security system

Computer Skills

- C/C++, General and microcontroller based programming
- JAVA, MATLAB, Xilinx, VB.NET, HTML, Assembly
- Database programming, Web designing, Computer graphics, Troubleshooting

Achievements

- Conducted workshop on PLC (Siemens) in 2013 at UMT, Lahore
- Conducted workshop on PLC (Siemens) in 2013 at COMSATS, Lahore campus

Interests

- Research, innovation, safety, travel

Muhammad Umair Khan

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Born 1993

Personal Profile	▪ Extremely reliable and dependable - analytical and questioning, strives for quality ▪ Methodical approach to planning and organizing - good time-manager ▪ Strong planning, organizing and monitoring abilities - an efficient time-manager ▪ Detailed and precise; fastidious and thorough ▪ Decisive and results-driven; creative problem-solver ▪ Studied Digital System Design, Power Electronics, Digital Signal Processing, Telecom Switching and Transmission and Optoelectronics as elective courses ▪ **Functional Areas**: Electrical, Electronics, Power Generation and Control
Education and Qualification	**University of Management and Technology (UMT), Lahore** BS Electrical Engineering 2014 **Govt. Rizvia Islamia Degree College, Haroon Abad** FSc 2009 **BISE, Bahawalpur** Matriculation 2007
Final Project	▪ Developed a research report and designed a Wireless Electricity Based on Magnetic Resonance Coupling. We applied such a non-radiative scheme which leads to strong coupling between two coils at a medium range distance for efficient wireless electricity. Our project setup is Omni directional. So we can avoid wires and it would be easy to get power on remote objects. Using this technology, we can avoid mess of wires. So this is easy way to charge our electronics devices like laptop, mobiles, robots etc
Term Projects	▪ Light following robot (Mousebot), Mousebot was a simple bot that used two "eyes" to sense light and then turn toward the light. A single large "whisker" was mounted on the front of the mouse to detect collisions. A collision with a wall would cause the mouse to reverse and turn in another direction. ▪ DC power Supply Simulation ▪ Designed boost converter (step-up converter) by using PWM (plus width modulation) technique. ▪ Simulated Digital Clock on FPG (Field Programmable Gates) by using Xilinx software
Computer Skills	▪ MultiSim ,Pspice, MATLAB, Proteus ,Xilinx, Psim software ▪ Microsoft Office(Word, Power Point, Excel) ▪ C/C++ Programming, Java, Assembly language
Achievements	▪ 6.002x Circuits and Electronics, MIT and Harvard certificate (July 2012) ▪ 6.002x Circuits and Electronics, MIT and Harvard certificate (December 2012)
Interests	▪ Technology, research, badminton, tourism

Muhammad Usman Naseem

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Born 1991

Personal Profile

- Good interpersonal and communication skills, leadership, high integrity
- Self-aware - always seeking to learn and grow
- Reliable and dependable in meeting objectives, hard-working
- Energetic and positive outlook, which often inspires others
- Seeks and finds good outcomes to challenges
- Studied Computer Networks, Power Electronics, Opto Electronics, Digital System Design and Digital Electronics as elective courses
- **Functional Areas:** Telecom, Electronics, Power

Education and Qualification

University of Management and Technology (UMT), Lahore
BS Electrical Engineering 2014

Punjab Group of College, Lahore
FSc (Pre-Engineering) 2009

Beaconhouse School System, Lahore
Matriculation 2007

Professional Experience

CMPAK LTD. (Zong), Lahore Jan 2013 – Present
OMCR Engineer

- Utilize Net Neuman software to identify any problem in different sites of Zong network
- Identify link breakage of any site in the network and advise the field engineers accordingly

Final Project

- Developed and designed an android based car automation system. The android application communicate through GSM with the controller for connecting and disconnecting services of car ignition system, doors locking and unlocking, AC system and indicators system on/off. Also, in case of unauthorized access to car doors the system would initiate the GSM and a message was sent to the car owner

Term Projects

- Designed traffic signal by using micro controller and LED's. The signal were displayed in the form of lights on LEDs
- Designed 12V power supply using buck boost convertor.
- Designed mobile phone charger
- Designed a digital clock using PIC controller and the result was displayed on LCD

Computer Skills

- LabVIEW, Matlab, MP Lab, Proteous, Programmable Logic Control, Micro C, Xilinx
- Microsoft Office (Word, Excel, Power Point), hardware, software trouble shooting
- Internet, Email
- Android Application (Eclipse)

Achievements

- Winner of online gaming competition of counter strike in 2013 at UMT, Lahore
- Ex-member of Blood Donar Welfare Society o f Fatima Memorial Hospital, Lahore
- Winner of badminton match in sports festival at school level

Interests

- Computer technology, science fiction movies, car racing, pets

Muhammad Usman Shafiq

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Cell: 0306-4526637
Email: engr.usmanchanda@gmail.com

Born 1991

Personal Profile	▪ Results-driven, logical and methodical approach to achieving tasks and objectives ▪ Reliable and dependable – high personal standards and attention to detail ▪ Strong planning, organizing and monitoring abilities – an efficient time-manager ▪ Good interpersonal skills – works well with others, motivates and encourages ▪ Energetic and physically very fit; quick to respond to opportunities and problems ▪ Have studied Digital Electronics, Power Electronics, Optoelectronics and Digital Signal Processing as elective courses ▪ **Functional Areas**: Electrical, Electronics, Power Generation and Control
Education and Qualification	**University of Management and Technology (UMT), Lahore** BS Electrical Engineering 2014 **Superior College, Okara** FSc 2009 **Govt. Model High School, Okara** Matriculation 2007
Final Project	▪ Developed a research report on auto control of a standby transformer using microcontroller under conditions of parallel operations of transformers. The main aim of this project was to provide un-interrupted power supply to the energy consumers. For this purpose two similar types of distribution transformers were used, so that if any one of the transformers failed, then immediately another transformer takes its place.
Term Projects	▪ Designed a frequency detector device which detected the frequency from different sources which were connected to the main line and transmit the electricity supply to the consumers ▪ Designed an LED torch with adjustable brightness. ▪ Designed an Inverter which converted 12V DC into 120V AC ▪ Designed a stepper motor control using micro controller (PIC 16F877A). It could be used for movement of a robot in any desired direction ▪ Designed a water level detector.
Computer Skills	▪ MultiSim , Pspice, MATLAB, Proteus, Xilinx, Psim software ▪ C/C++ Programming, Java, Assembly language. ▪ Microsoft Office(Word, Excel, PowerPoint) ▪ Internet, email
Achievements	▪ Won 3rd position in Brain Clash Quiz competition in 2013 at UMT, Lahore ▪ Participated in workshop on PLC in 2013 at UMT, Lahore ▪ Participated in workshop on solar energy in 2013 at UMT, Lahore
Interests	▪ Sports, research, history, mathematics

Munib Khalid

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Born 1993

Personal Profile

- Entrepreneurial and proactive, strong drive and keen business mind
- Good strategic appreciation and vision; able to build and implement sophisticated plans
- Strong planning, organizing and monitoring abilities - an efficient time-manager
- Good interpersonal skills - good communicator, leadership, high integrity
- Results-driven, logical and methodical approach to achieving tasks and objectives
- Studied Digital Electronics, Digital System Design , Digital Signal Processing, Electrical System Design and Industrial Electronics as elective courses
- **Functional Areas**: Electronics, T elecommunication

Education and Qualification

University of Management and Technology (UMT), Lahore
BS Electrical Engineering 2014

Superior Group of Colleges, Lahore
FSc 2010

Cantt Public School System, Lahore
Matriculation 2008

Professional Experience

Green Technology, Lahore Jun – Aug 2013
Intern

- Assisted in fault detection of chillers to ensure the proper working
- Assisted in modification of energy meter for cost efficiency
- Assisted in modification of digital interface to make profiles, macros etc.

Final Project

- Developed a research report and designed an Intelligent Load and Power Sources Management using Wireless Sensor Network. Utilized two power sources which are AC main and solar power. It detected solar power intensity and used it for charging batteries. At time of load -shedding power automatically switches from main source to backup utilizing stored power hence minimizing electricity bills smartly. Also designed a wireless sensor network for detecting human presence in room for automatic switching of appliance. This cuts off major misuse o f energy. An interface was also provided for monitoring voltage and power usage in every room

Term Projects

- Home Security System with Wireless Alarm: Long range wireless remote alarm
- Universal Infra Red Ray Jammer: It could be used for security purposes a gainst terrorism
- Designed an 18 bit security system: It could be used for door locks, cupboard lock
- Developed highly sensitive power supply: It could operate electronic modules

Computer Skills

- MATLAB, Arduino, MikroC for PIC, PCSpim , Xilinx ISE
- **C++ Programming:** Visual Studio, NetBeans IDE, Dev-C++
- **Electronics:** PSpice, PSim, Proteus, NI Multisim, Simulink, LabVIEW
- **Office Applications:** MS Excel, PowerPoint, Word, Adobe Acrobat
- **Programming Languages:** C, C++, C#, SQL, Assembly, VHDL, MIPS32

Achievements

- Organized an international event as Evento-14 in 2014 at UMT, Lahore
- Hosted a Children Literature Festival in 2013 at Lahore and won an honorary prize
- Organized national debating competition in 2013 at UMT, Lahore
- Hosted an event “Rang-e-Lahore” 2014 organized by PHA, Lahore
- Introduced presentation style debates in Pakistan in 2013 at UMT, Lahore

Interests

- Book reading, social work, traveling, hosting, debates

Murad Elahi

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Email: elahi.murad@gmail.com

Born 1990

Personal Profile

- Seeks new responsibilities and uses initiative, self-sufficient
- Solid approach to achieving tasks and objectives; determined and decisive
- Good interpersonal and communication skills, high integrity
- Energetic and physically very fit, quick to respond to opportunities and problems
- Active and dynamic approach to work and getting things done
- Studied Computer Networks, Power Electronics, Optoelectronics, Telecom Management, Digital System and Design, and Communication Systems as elective courses
- **Functional Areas**: Electrical, Electronics, Computer Hardware, Power Generation

Education and Qualification

University of Management and Technology (UMT), Lahore
BS Electrical Engineering — 2014

Crescent College, Lahore
FSc — 2009

Cathedral School System, Lahore
Matriculation — 2007

Professional Experience

U-Fone (MSC), Lahore — Apr - Jul 2014
Intern

- Assisted in RF optimization, KPI and value measurement to resolve technical issues
- Assisted in BTS 3900 and 3900 A maintenance to identify faults of power modules

Final Project

- Generated electricity by road traffic without any fuel. The whole project consisted of mechanical assembly of gears, springs, shaft rods and a platform of which automobile passes. A permanent magnet synchronous AC alternator was used for generating volts. The whole mechanical assembly was connected to alternators shaft, which on rotation generates current. A rectifier and a voltage regulator kit were also installed with the design for constant voltage regulation.

Term Projects

- Designed a digital dice using PIC microcontroller and a seven segment display on a PCB. C++ language was used
- Designed a boost regulator on Multisim
- Designed battery charger/rectifier

Computer Skills

- MultiSim, MATLAB, Proteus, National Instrument, Packet Tracer
- Microsoft Office (Word, Excel, Power Point)
- Internet, Email
- Troubleshooting computer hardware and software

Achievements

- Won 3rd position in speed wiring competition in 2013 at UMT, Lahore
- Participated in workshop on Optical Fiber Access Network (OFAN)
- Participated in workshop on Programmable Logic Controller (PLC)
- Passed IELTs in April 2014

Interests

- Technology, automobiles, traveling, football

Nadeem Mushtaq

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Born 1990

Personal Profile	▪ Team-player - loyal and determined ▪ High integrity and honesty; ethically and socially aware ▪ Good inter-personal and communications skills ▪ Sound planning and organizational capabilities ▪ Results oriented - focused on productive and high-yield activities ▪ Studied Power Electronics, Industrial Electronics, Digital Electronics and Digital System Design as elective courses ▪ **Functional Areas**: Electrical Machineries, Control System, Engineering Management
Education and Qualification	**University of Management and Technology (UMT), Lahore** BS Electrical Engineering 2014 **Punjab College, Gujrat** FSc 2010 **CBA Model College, Gujrat** Matriculation 2008
Professional Experience	**Servis Industries, Gujrat** Jun - Aug 2012 Intern ▪ Assisted in resolving malfunctioning of generators, motors, control panels, electricity distribution and PLCs ▪ Learned and observed industrial automation using PLCs
Final Project	▪ Constructed a safety system named as Automatic Crash Imminent Braking System that detects any obstacle or object present in front of it, We used LVmaxEZ1 sonar sensor (ultrasonic sensor) that measures distance from car to an obstacle\object. If distance is less than 6 meters, alarm turns on using Arduino Controller whereas, if distance is less than 2 meters, it applies brake automatically. Also, it detects if, a driver falls asleep while driving, a message is generated which is sort of an alarm produced by Arduino
Term Projects	▪ Designed a mosquito repellant using transistors, which repels mosquitoes by generating high frequency sound waves that were only audible to mosquitoes ▪ Designed a rain alarm ▪ Designed a water level detector ▪ Designed a security door lock by using keypad and microcontroller. ▪ Developed a pocket size FM receiver ▪ Developed a dark sensor using LDR ▪ Designed a water level control using PLC trainer
Computer Skills	▪ MATLAB, Proteus, LabVIEW, Microsoft Visual Studio (C), Xilinx ▪ Microsoft Office (Word, PowerPoint, Excel) ▪ Internet, e-mail
Achievements	▪ Participated in speed wiring contest in 2013 at UMT, Lahore
Interests	▪ Digital Systems, PLC, automation, microcontroller (Arduino)

Rabia Hussain

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Born 1991

Personal Profile	▪ Seeks and finds solutions to challenges - exceptionally positive attitude ▪ Great team-worker - adaptable and flexible ▪ Well-organized; good planner; efficient time-manager ▪ Seeks new responsibilities and uses initiative; self-sufficient ▪ Solid approach to achieving tasks and objectives; determined and decisive ▪ Studied Industrial Electronics, Optoelectronics, Digital Electronics, Digital System Design and Discrete-time Signal Processing as elective courses ▪ **Functional Area**: Communication Systems
Education and Qualification	**University of Management and Technology (UMT), Lahore** BS Electrical Engineering 2014 **Punjab Group of Colleges, Lahore** FSc 2010 **LDA Model Girls High School, Lahore** Matriculation 2008
Final Project	▪ Our FM transmitter and receiver are built with discrete analog components and integrated on three circuit boards. This project designates the design work for our intention to connect to vehicles by implementing of transmitter-receiver technique by means of frequency modulation of range HF i.e. 25 MHz. Our design consists of an audio amplifier, VCO (Voltage Controlled Oscillator), crystal COLPITTS oscillator, power amplifier at transmitter side whereas receiver consists of LNA (Low Noise Amplifier), oscillator, mixer, PLL (Phase Locked Loop) and a low pass filter. Our measurement and results are also included in this project. The power of our transmitter is 486 mW and receiver is 126 mW. This receptivity level translates to successful audio reception at distances of almost 30m from the transmitting antenna.
Term Projects	▪ Developed Digital Voltmeter by using PIC Micro -controller interfaced with LCD which was very effective in measuring volts ▪ Binary to 7-segment display by using ICs ▪ Door bell or buzzer ▪ Made dark sensor ▪ Inverter Layout and Schematic Design
Computer Skills	▪ MultiSim, MATLAB, Proteus ▪ Microsoft Office (Word, PowerPoint) ▪ Internet, e-mail
Achievement	▪ Participated in IEEE-Wie 2014, as a volunteer at UMT, Lahore ▪ Participated in science exhibition at school
Interests	▪ Communication systems, art work, painting, socializing

Rao Junaid Iqbal

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Born 1991

Personal Profile

- Identifies and develops opportunities; innovates and makes things happen
- Determined and decisive; uses initiative to meet and resolve challenges
- Strives for quality and applies process and discipline towards optimizing performance
- Extremely reliable and dependable - analytical and questioning, strives for quality
- Methodical approach to planning and organizing - efficient time-manager
- Studied Power Electronics, Industrial Electronics, Digital Electronics and Digital System Design as elective courses
- **Functional Areas**: Electrical and Electronics

Education and Qualification

University of Management and Technology (UMT), Lahore
BS Electrical Engineering 2014

BISE, Lahore
FSc 2010

BISE, Lahore
Matriculation 2008

Professional Experience

FESCO, Faisalabad Jul – Aug 2013
Intern

- Learned by observation the working of grid station and distribution of electricity
- Assisted in customer services by responding to customer queries regarding bill payments, new connections, etc.

Final Project

- Designed and implemented 2D Plotter using Arduino for laser cutter. This project consisted of a hardware and software part. Hardware included XY plotter assembly and Stepper motors drivers. The other part consisted of Interfacing of hardware with computer software using L297, L298 H bridges with Arduino. First, of all some regular shapes were drawn in AutoCAD after that, we generated G-Code using K cam Software. This code would be burnt in Arduino Using GRBL Software. L 297 was connected to Arduino's output through which L 298 got sequence and drove Stepper Motors. It would then draw the desired shapes using a pen which was attached to Z-axis

Term Projects

- Made a circuit of Sine and Cosine wave Generator
- Made controlling circuitry of fans and lights using relay
- Made traffic control system using PIC Micro-controller
- Worked on real time clock coding
- Worked on laser communication

Computer Skills

- MultiSim, PSpice, MATLAB, Proteus, Xilinx, LabVIEW software, Eagle software
- Microsoft Office (Word, PowerPoint, Excel)
- C/C++ Programming, Java, Assembly Language and Data Structure

Achievements

- Merit Scholarship holder in Electrical Engineering and FSc
- Part of Inter-departments Cricket Tournament Team 2013 at UMT, Lahore
- Participated in GIKI-SDSU International Symposium 2013 on the design of Dye-Sensitized Solar Cells for Cost Effective Energy Harvesting

Interests

- Embedded system, control system related to motors, PLC, telecom projects

Rehan Babur

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Born 1989

Personal Profile	▪ Reliable and dependable - high personal standards and attention to detail ▪ Seeks and finds solutions to challenges - exceptionally positive attitude ▪ Well-organized; good planner; good time-manager ▪ Good interpersonal skills - good communicator, high integrity ▪ Task-oriented - commercially experienced and aware ▪ Studied Power Electronics, Telecom Management, Digital Signal Processing, Digital Signal Design, and Computer Networks as elective courses ▪ **Functional Areas**: Power System, Engineering Management
Education and Qualification	**University of Management and Technology (UMT), Lahore** BS Electrical Engineering 2014 **Govt. Science College, Lahore** FSc 2008 **Qazi Pilot School, Lahore** Matriculation 2006
Professional Experience	**Power Com (Pvt.) Ltd., Lahore** May 2013 – Present Site Engineer ▪ Supervise DHA phase 9, Lahore for complete external electrification ▪ Design external electrification of allocated site ▪ Monitor activities of contractor and ensure that it is according to the prescribed design
Final Project	▪ Designed a model and developed a research report on PC to PC communication through laser. Data was sent from one PC to another PC through laser technology. Both PC were acting as a sender and receiver at the same time. The system was working under the line of sight principle
Term Projects	▪ Developed a solar tracker with stepper motor control using microcontroller. Used the stepper motor to move the solar panel both ways. The solar panel moved according to the density of the light ▪ Designed battery charger/rectifier. ▪ Designed boost converter (step-up converter) by using PWM (Plus Width Modulation) technique.
Computer Skills	▪ MATLAB, Proteus, LabVIEW, Microsoft Visual Studio (C#), Xilinx ▪ Microsoft Office (Word, PowerPoint, Excel) ▪ Internet, email
Achievements	▪ Member of debating society in UMT, Lahore ▪ Organized All Pakistan Declamation in 2010 at UMT, Lahore ▪ Participated in seminars on journalism at UMT, Lahore ▪ Participated in workshop on PLC at UMT, Lahore
Interests	▪ Technology, research, debates, novel reading

Saad Iftikhar

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Born 1991

Personal Profile

- Seeks and finds good outcomes to challenges
- Adaptable and flexible; well-organized planner and scheduler
- Seeks new responsibilities and uses initiative; self-sufficient
- Sets aims and targets, and leads by example
- Great team-worker adaptable and flexible
- High integrity and honesty; ethically and socially aware
- Studied Power Electronics, Industrial Electronics, Digital System Design and Digital Electronics as elective courses
- **Functional Areas**: Electrical, Electronics

Education and Qualification

University of Management and Technology (UMT), Lahore
BS Electrical Engineering — 2014

National Science College, Gujranwala
FSc — 2010

Govt. High School Ahmad Nagar, Gujranwala
Matriculation — 2008

Final Project

- Designed an 8 panel dual axis solar tracker. MPPT (Maximum Power Point Tracking) technique was used in this project. The designed tracker had the ability to move the panels in the direction of sun. Using tracker, maximum conversion of solar energy into electricity was made possible. Microcontroller Pic16f877 and comparator LM324 was used for this purpose. 4 LDR (Light Dependent Resistor) were used, to take the input and to provide it to the comparator, which sent the maximum value to the controller. Two motors were used for the movement of X -axis and Y-axis

Term Projects

- Designed a controlling circuit using operational amplifier
- Using relays, designed a circuit to operate dc motor in reverse and forward direction
- Designed and developed a real time clock on FPGA in digital format.
- Designed a water level detector circuit
- Designed a LDR circuit

Computer Skills

- **Electronics:** Proteus, Simulink, MultiSim, PSpice, MATLAB, Proteus, LabVIEW, Xilinx
- **C++ Programming:** Visual Studio
- **Designing/Editing**: AutoCAD, Adobe Photoshop
- Microsoft Office (Word, PowerPoint, Excel)
- Internet, e-mail

Achievements

- Won merit scholarship in FSc and remained position holder up to matriculation

Interests

- Gardening, sports, circuit designing, photography, traveling

Salman Ahmed

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Born 1992

Personal Profile

- High integrity, diligent and conscientious - reliable and dependable
- Self-aware, always seeking to learn and grow
- Seeks new responsibilities irrespective of reward and recognition
- Emotionally mature and confident - a calming influence
- Detailed and precise, fastidious and thorough
- Decisive and results-driven, creative problem-solver
- Studied Power Electronics, Electronic System and Design, Digital Electronics, and Opto Electronics as elective courses
- **Functional Areas:** Electrical, Electronics, Power Generation and Control

Education and Qualification

University of Management and Technology (UMT), Lahore
BS Electrical Engineering 2014

Punjab Group of Colleges, Lahore
FSc (Pre-Engineering) 2010

BISE, Lahore
Matriculation 2007

Professional Experience

Orient Energy System (Pvt.) Ltd., Lahore Jul – Aug 2013
Intern

- Assisted in installation of generators to work as back up of electricity
- Assisted in designing of power plant for installation of generators
- Assisted in trouble shooting of power plant

Final Project

- Developed and designed a three Phase Pure Sine Wa ve Inverter which converted DC to AC .The inverter took DC from the solar panel and converted it into Three Phase Pure Sine Wave AC. In first phase performed all simulation and in second phase, implemented the hardware. The energy which we get from solar panel is in the form of DC but the energy we used in our homes or industry is AC so converted it from DC to AC

Term Projects

- Designed an Inverter
- Implemented the 4 way traffic light system
- Designed boost converter (step-up converter) by using PWM (Plus Wi dth Modulation) technique.
- Designed and implemented the power supply
- Binary to digital 7 segment converter
- Automated Chargeable Solar Light
- Temperature Sensor by using PIC Microcontroller

Computer Skills

- MultiSim, Pspice, MATLAB, Proteus ,Xilinx, Psim sof tware
- Microsoft Office(Word, Power Point, Excel)
- C/C++ Programming, Java, Assembly language.

Achievements

- Won 3rd position in Brain Clash Quiz competition in 2013 at UMT, Lahore
- Participated in Conference on IT Entrepreneur in 2012

Interests

- Book reading, sports, research, technology

Salman Tariq

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Born 1990

Personal Profile

- Self-aware - always seeking to learn and grow
- Good starter - enthusiastic in finding openings and opportunities
- Reliable and dependable in meeting objectives - hard-working
- Great team-worker - adaptable and flexible
- High integrity and honesty, ethically and socially aware
- Studied Computer Networks, Power Electronics, Industrial Electronics, Digital System Design and Digital Electronics as elective courses
- **Functional areas:** Telecom, Electronics

Education and Qualification

University of Management and Technology (UMT), Lahore
BS Electrical Engineering — 2014

Punjab Group of College, Lahore
FSc (Pre-Engineering) — 2009

Lahore Garrison Grammar School, Lahore
Matriculation — 2007

Professional Experience

Quick Linx Wireless, **Head Office Lahore** — Jan 2010 – Dec 2013
Field Engineer

- Installed Wi-Max Systems for interaction of Punjab Police at different locations
- Installed and configured hotspot (Wi-Fi) for Syko International, Lahore and Ibrahim Fibers, Faisalabad for internal communication
- Configured P2p and p2mp wireless links for distant communication

Final Project

- Developed and designed a GSM based current, voltage and temperature monitoring and protection system for high voltage transformers of a system. The CT's and PT's were used to measure current and voltage respectively. CT's, PT's and temperature sensor transmitted their output to PIC microcontroller which monitored any abnormal behavior of voltage, current and temperature against a specified threshold value. In case of ambient behavior a message was displayed on the LCD and message about faulted transformer was transmitted to the mobile phone of field engineer. The faulty transformer was disconnected automatically from system through a relay

Term Projects

- Designed 12V power supply using buck boost convertor
- Designed mobile phone
- Designed a digital clock using PIC controller and the result was displayed on LCD

Computer Skills

- LabVIEW, Matlab, MP Lab, Proteous, Programmable Logic Control, Micro C, Xilinx
- Microsoft Office (Word, Excel, PowerPoint), hardware, software trouble shooting
- Internet, email

Achievements

- Raised funds for earthquake victims in 2008
- Participated in speed wiring competition organized by IEEE in 2012 at UMT, Lahore
- Got first position in inter school cricket match competition at school level

Interests

- Cricket, reading novels, science fiction movies, mobile phones

Sarmad Mahmood

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Born 1991

Personal Profile	▪ Identifies and develops opportunities; innovates and makes things happen ▪ Determined and decisive, uses initiative to meet and resolve challenges ▪ Strives for quality and applies process and discipline towards optimizing performance ▪ Extremely reliable and dependable - analytical and questioning, strives for quality ▪ Methodical approach to planning and organizing - good time-manager ▪ Studied Power Electronics, Industrial Electronics, Digital Electronics and Digital System Design as elective courses ▪ **Functional Areas**: Electrical, Electronics
Education and Qualification	**University of Management and Technology (UMT), Lahore** BS Electrical Engineering 2014 **BISE, Lahore** FSc 2010 **BISE, Lahore** Matriculation 2008
Final Project	▪ Designed and implemented 2D Plotter using Arduino for laser cutter. This project consisted of a hardware and software part. Hardware included XY plotter assembly and Stepper Motors drivers. The other part consisted of Interfacing of hardware with computer software using L297, L298 H bridges with Arduino. First of all, some regular shapes were drawn in AutoCAD and after that generated G-Code using K cam Software. This code would be burnt in Arduino Using GRBL Software. L 297 was connected to Arduino's output through which L 298 got the sequence to drive Stepper Motors. It would then draw the desired shapes using a pen which was attached to Z-axis
Term Projects	▪ Made a circuit of sine and cosine wave generator ▪ Made controlling circuitry of fans and lights ▪ Made traffic control system Using PIC Microcontroller ▪ Worked on real time clock coding ▪ Worked on laser communication
Computer Skills	▪ MultiSim, PSPice, MATLAB, Proteus, Xilinx, Labview software, Eagle software ▪ Microsoft Office (Word, Power Point, Excel) ▪ C/C++ Programming, Java, Assembly Language, data structure
Achievements	▪ Merit scholarship holder in electrical engineering and FSc ▪ Part of Inter-departments Cricket Tournament Winning Team (2013) at UMT, Lahore ▪ Participated in GIKI-SDSU International Symposium 2013 on Design of Dye-Sensitized Solar Cells for Cost Effective Energy Harvesting
Interests	▪ Embedded system, control system related to motors, PLC, telecom projects

Sarmad Pervaiz

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Born 1992

Personal Profile

- Determined and decisive; uses initiative to develop effective solutions to problems
- Methodical and rigorous approach to achieving tasks and objectives
- Identifies and develops opportunities; innovates and makes things happen
- Determined and decisive; uses initiative to meet and resolve challenges
- Extremely reliable and dependable - analytical and questioning, strives for quality
- Studied Power Electronics, Industrial Electronics, Digital Electronics and Digital System Design as elective courses
- **Functional Areas**: Electrical Machineries, Control System, Engineering Management

Education and Qualification

University of Management and Technology (UMT), Lahore
BS Electrical Engineering 2014

Punjab College, Gujrat
FSc 2010

Municipal Model High School for Boys, Gujrat
Matriculation 2008

Professional Experience

Shadiwal Power House, Gujrat Jun - Aug 2012
Intern

- Learned by observation the working of generator
- Learned by observation the use of control panels and distribution of electricity

Final Project

- Constructed a safety system named as Automatic Crash Imminent Braking System that detects any obstacle or object present in front of it, using LVmaxEZ1 sonar sensor (Ultrasonic sensor) that measures distance from car to an obstacle\object. If distance is less than 6 meters, alarm turns on using Arduino Controller whereas, if distance is less than 2 meters, it applies brake automatically. Detects if a driver falls asleep while driving, a message is generated which is sort of an alarm produced by Arduino Controller.

Term Projects

- Traffic light control
- Security door lock by using keypad and microcontroller
- Buck boost converter
- Created a pocket size Frequency Modulation (FM) receiver that can be used as portable machine to access FM stations in the nearby areas
- Created a dark sensor. Placed LDR as a switch which detected the intensity of the lights. As soon as the light intensity on a LDR reduces to some minimum point, the alert is produced
- A water level control system was devised by using Programmable Logic Controller PLC. PLC then monitored the water level between the two links. It could check both; maximum and minimum water levels

Computer Skills

- MATLAB, Proteus, LabVIEW, Microsoft Visual Studio (C), Xilinx
- Microsoft Office (Word, PowerPoint, Excel)

Achievements

- Participated in speed wiring contest in 2013 at UMT, Lahore
- Participated in PLC workshop in 2013 at UMT, Lahore

Interests

- Current affairs, social media, mathematics, military affairs

Shahrose Zahid Yazdani

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Born 1992

Personal Profile

- Good strategic appreciation and vision; able to build and implement sophisticated plans
- Great team-worker - adaptable and flexible
- Self-aware – always seeking to learn and grow
- Well-organized; good planner; efficient time-manager
- Task-oriented - commercially experienced and aware
- Studied Power Electronics, Industrial Electronics, Digital System Design and Electronic System Design as elective courses
- **Functional Areas**: Control System, Electronics

Education and Qualification

University of Management and Technology (UMT), Lahore
BS Electrical Engineering 2014

Punjab College, Lahore
FSc 2010

Pakistan School and College, Kuwait
Matriculation 2008

Professional Experience

Mechatronics Engineering Solutions, Lahore Jun 2014
Siemens Simatic S7 Training

- Worked on PLC (S7-200, S7-300 and S7-400) and HMI (TP-177B PN/DP, KPT 600 PN)
- Testing, Control, Monitoring and Communicating between PLC, HMI and RTUs via different protocols (MPI, PPI, Profibus, Ethernet)
- Analyzed parameterization and properties of various CPUs along with hardware configuration methods
- HMI designing, Tag linking using WinnCC flexible

Final Project

- Constructed a Twin Copter using Brushless DC motors and Propellers. A flight controller was used to stabilize the copter in which Gyro and Accelerometer were placed. Electronic Speed Controller was used to control the throttle of BLDCs and Servo motors were used to control the directions. A LiPo battery was used to power up the twin copter. The project also included wireless charging (magnetic induction) phenomenon to charge the battery of the twin copter and that of the automated parking rails battery. The automated parking was built to bring the copter into its hanger; after it landed on the rail and as it reached the hanger, the sensor then detects and start the charging process till the battery was full. It stayed in that hanger until, it was being asked to bring the copter back to the place from where it could fly

Term Projects

- Prepared a propeller LED display by using PIC Microcontroller which showed alphabets and numbers
- Designed a heart beat calculator which involved IR sensor with LED and Photodiode to measure the pulse from a finger and showed the result on 7-segmet display
- Designed a 7-segment display counter using logic gates from 0 to 99
- Designed a 12V to 110V inverter
- Developed small power supplies of 5 V, 7V, 9V, 12V and variable supply of 0 V to 24V
- Developed a simple LDR switch to turn on/off lights

Computer Skills

- MATLAB/Simulink, Proteus, LabVIEW, Xilinx, Simatic Manager, Win CC flexible, Express PCB, MicroC Pro, PIC Flash, UltiBoard
- Microsoft Office (Word, PowerPoint, Excel)
- Windows 98/2000/XP/7/8, Linux Ubuntu

Achievements

- Participated in brain teaser competition in 2014 at Muhammad Ali Jinnah University (MAJU), Islamabad

Interests

- Technology, innovation, automation, robotics

Shahroz Rafiq

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Born 1993

Personal Profile

- Tactical, strategic and proactive - anticipates and takes initiative
- Systematic and logical - develops and uses effective processes
- Good listener - caring and compassionate
- Critical thinker - strong analytical skills; accurate and probing
- Good researcher - creative and methodical - probing and resourceful
- Studied Power Electronics, Industrial Electronics, Digital Signal Processing, Electronic System Design and Digital Electronics as elective courses
- **Functional Areas:** Electrical, Electronics

Education and Qualification

University of Management and Technology (UMT), Lahore
BS-Electrical Engineering 2014
Punjab College of Information Technology, Multan
FSc 2009
Government Pilot Secondary School , Multan
Matriculation 2007

Final Project

- Developed a research report on a real time demonstration of a chemical/liquid mixture using PLC. We took three liquids and mixed them in mixing chamber. This mixed solution was collected in a separated container that was placed on a conveyer belt. Sensors were used to detect the level of water in containers that would help to refill them. Solenoid valves were used to control the flow of liquid. The special feature of this model was that we could make up to four different schemes and in one cycle we had three bottles solution. We could also change the size of the bottle

Term Projects

- **LDR based automatic street lights**
- **Home security burglar alarm:** At the opening of the door, the connection breaks and a buzzer gets activated
- **Countdown Timer Circuit :** With the help of 555 timer and a 7 segment display a timer can adjust to beeps after a specific time
- **12V Car battery charger:** Very cheap and useful for charging batteries with a safety of stopping over charging
- **4X4 Calculator**: 8051 Microcontroller was coded and interfaced with the 4*4 keyboard to calculate the mathematical values
- **Amplitude Modulation Generation**: Generated and transmitted a AM Modulated signal using mc1496
- **Capacitance meter**: Designed and implemented a variable capacitance measuring device

Computer Skills

- MATLAB, Proteus, LabVIEW, Microsoft Visual Studio, Xilinx, PSPICE, PC-SPIM, MPLAB, MultiSim
- Java, Assembly, C/C++
- Microsoft Office (Word, PowerPoint, Excel), Internet, e-mail

Certifications

- Participated in workshop on MATLAB Fundamentals in 2013 at UMT, Lahore
- Participated in workshop on Programmable Logic Controller in 2013 at UMT, Lahore
- Participated in Programmable Logic Controller training using Siemens S7-300 PLC from EESINT (Electrical Engineering Solution International Pvt., Ltd.) in 2012

Interests

- Innovation, PLC, digital systems, automation, electronic circuits

Shair Afgun

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Born 1992

Personal Profile

- Strong planning, organizing and monitoring abilities - an efficient time-manager
- Good interpersonal skills - works well with others, motivates and encourages
- Self-aware - always seeking to learn and grow
- Decisive and results-driven; creative problem-solver
- Detailed and precise; fastidious and thorough
- Studied Power Electronics, Digital Electronics, Digital Signal Processing, Industrial Electronics and Digital System Design as elective courses
- **Functional area:** Electronics

Education and Qualification

University of Management and Technology (UMT), Lahore
BS Electrical Engineering — 2014

Sadiq Public School, Bahawalpur
FSc — 2009

Sadiq Public School, Bahawalpur
Matriculation — 2007

Professional Experience

NTDC (WAPDA), Lahore — 2013
Intern

- Assisted in the control of grid station and distribution of electricity
- Learned by observation the working and design of different grid stations

Final Project

- Controlled the speed of an AC Induction Motor by the close loop method. To achieve the main aim of the project, we used 3 PIC microcontrollers for sensing, comparing and for the generation of Pulse Width Modulation. We could use this technique in different factories and industries in which the constant speed of motor is required.

Term Projects

- Made a Digital Temperature Sensor with the help of PIC mic rocontroller
- Made an AM modulator with the help of PIC microcontroller
- Designed a digital DC voltmeter which was very effective in measuring DC volts of battery and in many other applications
- Made an intelligent switch with help of light sensor which was helpful to save energy
- Developed a mobile phone detector device which could detect if a mobile was used in a restricted area.

Computer Skills

- MATLAB, Proteus, PSpice, MikroC, LabVIEW, MultiSim, Borland, Net Beans, MPlab, Winspice, Electric and AutoCAD
- Microsoft Office (Word, PowerPoint, Excel), Adobe Photo Shop, Coral Draw
- Win XP, Win 7, Win Vista, Win 8, Internet, e -mail

Achievements

- Best performance award in sports at school level
- Best performance award in Online Kangaroo Mathematics Test
- Received a speaker award at college level
- Attended a workshop on PLC in UMT, Lahore
- Attended a workshop on MATLAB in UMT, Lahore

Interests

- Power electronics, digital systems, automation, innovation, PLC based system

Sharjeel Farooq

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Born 1991

Personal Profile

- Methodical approach to planning and organizing - good time-manager
- Good interpersonal skills - good communicator, leadership, high integrit y
- Strong planning, organizing and monitoring abilities - an efficient time-manager
- Self-driven and self-reliant - sets aims and targets and leads by example
- Good interpersonal skills - works well with others, motivates and encourages
- Studied Power Electronics, Industrial Electronics, Digital Signal Processing and Optoelectronics as elective courses
- **Functional Areas**: Engineering Management

Education and Qualification

University of Management and Technology (UMT), Lahore
BS Electrical Engineering 2014

The City School, Sialkot
A level 2010

The City School, Sialkot
O Level 2008

Professional Experience

SMIS-AGS 2014
Auditor ISO 9001:2008

- Conducted audits and provided consultancy in implementing ISO standards. Conducted 1st and 2nd stage audit and developed reports

DESCON Internationals (Pvt) Ltd 2013
Intern

- Assisted in all stages of EPC (engineering procurement construction) company projects. Analyzed the PARCO project that covered all project stages

CopperGat Ltd. 2013

- Audited copper gate for ISO 9001 ,ISO18001 certification

Final Project

- Efficient Solar Tracking System: Developed a system that provides cheap electricity generation. Single axis solar tracker was designed to maximize efficiency of the system that moves the panels according to the position of the sun using LDR's, using DC motor, control feedback, panels and an inverter. Designed a buck boost converter that successfully supplies the required voltages to charge the batteries. Designed a cheap inverter using a microcontroller of 500Watts

Term Projects

- Made Digital Clock by using Pic Microcontroller interfaced with LCD
- Designed line following robot which worked by using signals from IR sensors, the microcontroller made decision to turn right/left to follow the line
- Designd a digital DC voltmeter
- Ziner diode tester, automatic light dark lighting system

Computer Skills

- MATLAB, Proteus, Lab View, CCS, , Xilinx
- Microsoft Office(Word, Power Point, Excel)
- Internet, E-mail

Achievements

- Participated in one day training course in Performance Management
- Participated in one day training course in ISO 2200:2005
- 2days training course on Quality Auditing Management System

Interests

- Documentaries, news papers, magazines

Shoaib Ali

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Born 1991

Personal Profile

- Great team-worker, adaptable and flexible
- Well-organized, good planner; good time-manager
- Entrepreneurial and proactive, strong drive and keen business mind
- Self-driven and self-reliant, sets aims and targets, leads by example
- Critical thinker, strong analytical skills, accurate and probing
- Studied Power Electronics, Digital Signal Processing, Electronic System Design, Telecom Switching and Transmission and Communication System as e lective courses
- **Functional Areas:** Power Generation and Control, Embedded System

Education and Qualification

University of Management and Technology (UMT), Lahore
BS Electrical Engineering 2014

Punjab College of Science, Lahore
FSc 2009

English Grammar School, Lahore
Matriculation 2007

Professional Experience

Pak Elektron Ltd., Lahore Aug – Sep 2012
Intern

- Assisted in energy meter calibration to check the appropriate working of meter
- Assisted in meter checking by load transfer to check unit consumption
- Assisted in construction of digital meter as technology was shifting from analog to digital
- Assisted in the construction of transformer
- Assisted in the construction of panels used for load distribution

Final Project

- Developed a research report and designed a prototype of Power Generation from Wind Turbine. The idea was to run small loads with a help wind turbine. Relays were used for the protection of loads. LCD interfacing showed the voltages generated from wind that was stored in the battery. The battery was protected with the help of battery protection circuit.

Term Projects

- Designed water level indicator circuit to detect the rising water level
- Designed two way traffic light controllers with the help of PIC controller
- Designed overcharge battery protection circuit for protecting 12V battery
- Designed battery discharge indicator for showing the discharging level of battery
- Designed Inverter which converts 12V DC into 220V AC by using MOSFET and step up transformer

Computer Skills

- MultiSim, MATLAB, Proteus, Xilinx, PSim software
- C/C++ Programming, Assembly Language, HTML, CSS
- Microsoft Office (Word, Excel, PowerPoint)
- Internet, email

Achievements

- Participated in IEEE quiz competition in 2013 at UMT, Lahore
- Participated in C++ programming competition in 2013 at UMT, Lahore

Interests

- Surfing the net for research, article writing, cricket, political affairs

Sohail Yasir

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Born 1985

Personal Profile

- Decisive and results-driven; creative problem-solver
- Good starter - enthusiastic in finding openings and opportunities
- Emotionally mature; calm and positive temperament; tolerant and understanding
- Good strategic appreciation and vision; able to implement sophisticated plans
- Seeks and finds solutions to challenges-exceptionally positive attitude
- Studied Power Electronics, Industrial Electronics, Digital Signal Processing, Electronic System Designs and Digital System Design as elective courses
- **Functional Areas**: Circuit Analysis, Digital System Design, Communication Systems

Education and Qualification

University of Management and Technology (UMT), Lahore
BS Electrical Engineering 2014

FG Degree College, Okara
FSc 2006

FG Degree College, Okara
Matriculation 2003

Professional Experience

Tarbella Power Station, Mangla Jun – Aug 2013
Intern

- Studied different types of motors, generators and runners along with fixing criteria
- Worked in switchyard and manage breakers and isolators
- Visited spillway and learned factors by which irrigation department controls water

Final Project

- Implementation of high performance frequency and phase synthesizer on FPGA using same frequency with different phases. Electronic and communication equipment requires certain frequencies for their operation, for which using multiple oscillators was not a feasible solution, so a proposal of frequency synthesizer was very useful as it could generate frequencies from 3.125 MHz to 100 MHz. As the range of DDFS was very less, we could use DDFS with our proposed synthesizer which could increase its range. The basic idea was to use a single frequency clock but with multiple phases, a specially designed VCO was required but we used ring counter to generate multiple clocks of same frequency each with different phase.

Term Projects

- Voltage level indicator which was very effective in measuring DC volts of battery and used in many other applications
- Water level indicator using PIC16f877a which was very effective in measuring water level along with low level indication alarm
- Made digital clock by using PIC Microcontroller interfaced with LCD
- Designed line following robot which worked by using signals from IR sensors, the microcontroller made decision to turn right/left to follow the line

Computer Skills

- MATLAB, Proteus, LabVIEW, Xilinx, FPGA
- Microsoft Office (Word, PowerPoint, Excel), internet, e-mail

Achievements

- Won Dean's Merit Award twice for securing good GPA in BS-Electrical Engineering
- Passed online course of 6.002 xs: Circuits and Electronics from The Massachusetts Institute of Technology (MIT) through edX

Interests

- Internet surfing, gaming, cricket, reading and circuit analysis

Syed Muhammad Fahad Wasti

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Born 1992

Personal Profile	▪ Reliable and dependable in meeting objectives – hard working ▪ Determined and decisive; uses initiative to meet and resolve challenges ▪ Strives for quality and applies process and discipline towards optimizing performance ▪ Active and dynamic approach to work and getting things done ▪ Seeks new responsibilities and uses initiative; self-sufficient ▪ Studied Digital Signal Processing, Power Electronics, Industrial Electronics, and Digital Integrated Circuit as elective courses ▪ **Functional Areas**: Electrical, Electronics
Education and Qualification	**University of Management and Technology (UMT), Lahore** BS Electrical Engineering 2014 **Govt College Township, Lahore** FSc 2010 **BISE, Lahore** Matriculation 2008
Final Project	▪ Developed a GSM based project to monitor and control the voltage, current and temperature of the load (Geyser was used as a load). Micro-controller was used to monitor these parameters. Sensors provided the values to the microcontroller; these values were uploaded to the website which could be monitored globally. Whenever fault occurred or the value of current, voltage and temperature deviated from the ideal value, microcontroller turned the device off and sent the alarming values to the remote person through SMS. The monitoring system could be used to detect the over/under current and voltage conditions, observed the circuit breakers, and recorded all the values. The conveyor systems, time management and the quality of the process could be controlled and monitored through this system
Term Projects	▪ Transistor Tester: Developed a tester for transistor that could verify all pins of transistor ▪ Traffic Light Model ▪ Water level Sensor: Designed a water level sensor by using microcontroller. ▪ Temperature sensor: Developed a temperature sensor. The LCD display would show the temperature change. ▪ Developed and designed a mobile phone signal detector.
Computer Skills	▪ Microsoft Office (Word, Excel, PowerPoint), Borland, Net Beans, Auto Cad ▪ MikroC PIC microcontroller programming, MPLAB, MATLAB, WinSpice, Electric (Java) Software
Achievements	▪ Appeared in Dean's Merit List on scoring good CGPA in BS -EE at UMT, Lahore ▪ Achieved 50% fee scholarship in UMT, Lahore ▪ Participated in PLC and MATLAB workshops at UMT, Lahore ▪ Got 2nd Position in Art competition at School
Interests	▪ Sketching and drawing, religion, exploring nature and traveling

Tahir Saleem

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Permanent Address: Basti Garhay Walli, Chack No.705 G.B Kamalia Tehsil Kamalia, District Toba Tek Singh
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Email: engineertahir705@gmail.com Born 1990

Personal Profile

- Tactical, strategic and proactive, anticipates and takes initiative
- Systematic and logical, develops and uses effective processes
- Good interpersonal and communication skills, high integrity
- Energetic and physically very fit, quick to respond to opportunities and problems
- Active and dynamic approach to work and getting things done
- Studied Digital Electronics, Power Electronics, Digital System Design, Industrial Electronics and Electronic System Design as elective courses
- **Functional Areas**: Electrical, Electronics, Power Generation and Control

Education and Qualification

University of Management and Technology (UMT), Lahore
BS Electrical Engineering (Electronics) 2014

Pak Poly Technique Institute Lahore (Alama Iqba l Town)
DAE (Electronics) 2010

BISE, Faisalabad
FSc 2007

BISE, Faisalabad
Matriculation 2005

Professional Experience

Sardar Medical Complex, Nanka Sahib Jul – Sep 2007
Electrical Supervisor

- Purchased, installed and maintained hospital equipments

Final Project

- Developed a research report on automation of sterilizer using PLC. The report was about sterilization in medical and other industries. GUI interface was used to run the sterilizer properly. The automated parameters were water level, temperature and pressure. Designed such a compact design which reduced the steam loss and processing time was reduced.

Term Projects

- Designed digital temperature thermometer using PIC microcontroller and lm35 as temperature sensor. This project se nsed temperature and displayed it on LCD
- Testing of Biodiesel parameters such as Viscosity, PH, Octane Number, Combustion Point and Water Content Analysis etc.
- Designed BJT transistor family checker
- Implemented shift register on trainers which shifted data bit by bit
- Designed temperature controller by using thermistor

Computer Skills

- MultiSim, Win Spice, MATLAB, Proteus, Xilinx, Pcspim Software
- Microsoft Office(Word, Power Point, Excel)
- C/C++ Programming, Java, Assembly language.

Achievements

- Got 4th position in DAE (Electronics) at College level in 2010
- Got 1st position in matriculation at school level in 2005

Interests

- Technology, reading newspaper, gardening, swimming

Umair Hussain

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Born 1991

Personal Profile	▪ Good interpersonal skills - works well with others, motivates and encourages ▪ Logical and systematic approach to achieving tasks and objectives ▪ Passionately mature; calming and positive nature; tolerant and understanding ▪ Seeks and finds solutions to challenges-exceptionally positive attitude ▪ Studied Industrial Electronics, Power Electronics, Digital Signal Processing, Electronic System Design and Digital System Design as elective courses ▪ **Functional Areas**: Control System, Engineering Management, Circuit Analysis
Education and Qualification	**University of Management and Technology (UMT), Lahore** BS Electrical Engineering 2014 **Forman Christian College FCCU, Lahore** FSc 2009 **The Punjab School, Lahore** Matriculation 2007
Professional Experience	**Mangla Power Station, Mangla** Jun – Aug 2013 Intern ▪ Learned about different types of turbines, rotors and stators ▪ Worked in switchyard and learned how electricity was transmitted to national grid
Final Project	▪ Implementation of high performance frequency and phase synthesizer on FPGA using same frequency with different phases. Electronic and communication equipme nt requires certain frequencies for their operation, for which using multiple oscillators was not a feasible solution, so a proposal of frequency synthesizer was successful as it could generate frequencies from 3.125MHz to 100MHz. As the range of DDFS was very less, we could use DDFS with our proposed synthesizer which could increase its range. The basic idea was to use a single frequency clock but with multiple phases; a specially designed VCO was required but we used ring counter to generate multiple clocks of same frequency each with different phase
Term Projects	▪ FM modulation using IC 8038, successfully modulated the FM wave and result was shown on oscilloscope ▪ Current and voltage power supply which was capable of delivering up to 15V and 2Amperes ▪ Line following robot using pic16f877a which worked by using signals from IR sensors. The microcontroller made decision to turn right/left to follow the line ▪ Voltage level indicator which was very effective in measuring DC volts of battery and in many other applications ▪ Water level indicator using pic16f877a which, was very effective in measuring water level along with low level indication alarm
Computer Skills	▪ MATLAB, Proteus, LabVIEW, Xilinx ▪ Microsoft Office (Word, PowerPoint, Excel) ▪ Internet, e-mail
Achievements	▪ Won Dean Merit Award twice on securing highest GPA ▪ Passed online course 6.002 xs: Circuits and Electronics from The Massachusetts Institute of Technology (MIT) through edX.
Interests	▪ Cricket, reading, circuit analysis

Umar Javed

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Born 1991

Personal Profile

- Extremely reliable and dependable - analytical and questioning, strives for quality
- Methodical approach to planning and organizing
- Good communication and interpersonal skills, leadership, high integrity
- Strong planning, organizing and monitoring abilities - an efficient time-manager
- Self-driven and self-reliant - sets aims and targets, and leads by example
- Studied Power Electronics, Wireless Communication, Digital System Design and Communication System as elective courses
- **Functional Areas**: Control System, Communication Systems

Education and Qualification

University of Management and Technology (UMT), Lahore
BS Electrical Engineering 2014

Govt. College, Hasilpur
FSc 2010

Sir Syed Model High School, Hasilpur
Matriculation 2008

Professional Experience

Modern Ghee Mill Pvt Ltd, Hasilpur Jun - Jul 2014
- Assisted in control of power house, generators and machinery

Final Project

- Constructed a robot based on graphical user interface control which covered the distance from desired source to 300m with the help of WIFI, transceivers and sensors. The Modtronix SBC65EC Ethernet Board was used to enable communication between the operator and router. The robot got input signal and before moving towards the desired node it intelligently took decision for the shortest path by Dijkstra's Algorithm and then moved towards its destination. Used chain instead of tyres to enable the robot to move in hazardous areas

Term Projects

- Made digital clock by using FPGA and also by using PIC Microcontroller interfaced with LCD
- Designed line following robot which worked by using signals from IR sensors and the microcontroller made decision to follow the line
- Electronic combination lock based on PIC interfaced with LCD
- Traffic signal system using logic gates.

Computer Skills

- MATLAB, Proteus, LabVIEW, Microsoft Visual Studio (C#), Xilinx
- Microsoft Office (Word, P owerPoint, Excel)
- Working in multi OS environment XP, Windows 7, 8, 8.1
- Internet, e-mail

Achievements

- Volunteered to work for UMT convocation
- Member of UMT OPA Society
- Member of school Football team

Interests

- Innovation , photography, digital systems, automation, programming

Usama Masood

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Born 1992

Personal Profile

- Strong planning, organizing and monitoring abilities, an efficient time-manager
- Self-aware - always seeking to learn and grow
- Emotionally mature, calming and positive temperament; tolerant and understanding
- Great team-worker, adaptable and flexible
- Critical thinker - strong analytical skills, accurate and probing
- Studied Wireless Communication, Digital Communication, Computer Networks, Digital Signal Processing and Optoelectronics as elective courses
- **Functional Areas**: Telecommunication, IT, Computer Networking

Education and Qualification

University of Management and Technology (UMT), Lahore
BS Electrical Engineering 2014

Crescent College, Lahore
FSc 2010

Cathedral School, Lahore
Matriculation 2008

Professional Experience

IT Center, UVAS, Lahore Jun – Aug 2013
Intern

- Worked on routing protocols for computer networks such as OSPF, EIGRP, IGRP, RIP
- Worked on VLAN, VTP, STP, NAT to divide and manage network
- Troubleshoot computer hardware failure, data corruption and software installation

Final Project

- Developed a research report and designed an Intelligent Load and Power Sources Management using Wireless Sensor Network. Utilized two power sources AC main and solar power. It detected solar power intensity and used it for charging batteries. This was power sources management and based on smart algorithm. At time of load-shedding power automatically switches from main source to backup utilizing stored power hence minimizing electricity bills smartly. Also designed a wireless sensor network based on intelligent algorithm for detecting human presence in room for automatic switching of appliance. This cuts off major misuse of energy. An Interface was also provided for monitoring voltage and power usage in every room

Term Projects

- Home Security System with Wireless Alarm: Long range wireless remote alarm
- Pulse Meter: Displays human heart (BPM) by Intelligent pulse detection system
- Digital Voltmeter: Accurately measure voltage and displayed it on LCD module
- Pulse Width Modulation (PWM) Modulator and De-Modulator
- Waterfall Sequencing using LEDs

Computer Skills

- MATLAB, Arduino, MikroC for PIC, Keil, MPLab, PCSpim , Xilinx ISE
- **Networking:** Packet Tracer, Putty, HyperTerminal
- **C++ Programming:** Visual Studio, NetBeans IDE, Dev-C++
- **Electronics:** PSpice, PSim, Proteus, NI Multisim, Simulink, LabVIEW
- **Designing/Editing**: AutoCAD, Adobe Photoshop, Cyberlink Power Director
- **Office Applications:** LaTeX, MS Excel, PowerPoint, Word, Adobe Acrobat
- **Programming Languages:** Cisco IOS, C, C++, C#, SQL, Assembly, VHDL, MIPS32

Achievements

- Organized inter university competition “Techno-Fiesta” in 2014 at UMT, Lahore
- Won Rector’s Merit Award in 2012 and Dean’s Merit Award in 2013 at UMT, Lahore
- Got 1st Position in Brain Teasers Competition in IJSEC 2014 at MAJU, Islamabad
- Got 1st Position in Math Geek Competition in IEEE Week 2014 at FAST Lahore
- Got 1st Position in Circuit Designing and Wiring in 2014 at COMSATS, Lahore

Interests

- Information and communication technologies, computer apps, cricket, traveling

Usama Shafqat Minhas

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Born 1991

Personal Profile

- Results-driven, logical and methodical approach to achieving tasks and objectives
- Determined and decisive; uses initiative to develop effective solutions to problems
- Reliable and dependable - high personal standards and attention to detail
- Methodical and rigorous approach to achieving tasks and objectives
- Entrepreneurial and proactive - strong drive and keen business mind
- Studied Power Electronics, Industrial Electronics, Communication System, Electrical Machines and Power Systems as elective couses
- **Functional Areas**: Control System, Engineering Management

Education and Qualification

University of Management and Technology (UMT), Lahore
BS Electrical Engineering 2014
Punjab College of Science, Gujranwala
FSc 2010
Quaid-e-Azam Public College, Gujranwala
Matriculation 2008

Professional Experience

Tools Dies and Molds Centre (GTDMC), Gujranwala Jul – Aug 2013
Intern
- Learned to operate and trouble shoot CNC and PLC machines

Hydel Power Plant, Gujranwala Sep 2012
Intern
- Learned about the generation and the transmission of the electricity.

Pakistan Telecommunication (PTCL) Jun – Jul 2012
Intern
- Learned about computer networks, ADSL2+, LAN, WAN and DSLAM installation

Final Project

- Developed Computer Aided Manufacturing-CNC Router for the task of wood working. Manufactured 3-Axis CNC Router for automatic drilling and made different designs on wood sheet. The hardware part consisted of ball screws, ball bearings and supported rails that allowed the gantry to move in X-Y directions. Z-axis was used for up and down movement. MACH-3 CNC software was used to drill file and control the three stepper motors to drill at required location. By using this software, NC file was generated and loaded to process controller which would execute the job.

Term Projects

- Banking system data base by using C++ Language
- Designed line following robot which worked by using signals from IR sensors. The microcontroller made decision to turn right/left to follow the line
- Designed a digital DC voltmeter which was very effective in measuring DC volts of battery and in many other applications
- Stepper motor driver using Microcontroller
- Pitch controller of air craft by using Matlab

Computer Skills

- C, C++, MATLAB , Proteus, LabVIEW , Xilinx, Assembly Language (Keil, MASM)
- PLC, CNC
- Web-Develpment using PHP and HTML

Achievements

- Participated in robotics workshop held at LUMS
- Completed two weeks Programmable Logic Control (PLC) course from PITAC

Interests

- Automation, computer networks, power systems

Usman Rashid Choudhary

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Born 1991

Personal Profile	▪ Good starter - enthusiastic in finding openings and opportunities ▪ Creative and entrepreneurial networker - effective project coordinator ▪ Reliable and dependable in meeting objectives – hard working ▪ Emotionally mature; calming and positive temperament; tolerant and understanding ▪ Seeks and finds solutions to challenges - exceptionally positive attitude ▪ Studied Power Electronics, Industrial Electronics, Digital System Design and Communication System as elective courses ▪ **Functional Areas**: Automation, Power Electronics and Engineering Management
Education and Qualification	**University of Management and Technology (UMT), Lahore** BS Electrical Engineering 2014 **Pakistan International School Riyadh, Saudi Arabia** FSc 2009 **Pakistan International School Riyadh, Saudi Arabia** Matriculation 2007
Professional Experience	**AJK Power Development Organization, Jagran, Azad Kashmir** Jun - Jul 2014 Intern ▪ Learned the generation and distribution of 30.4 MW power station
Final Project	▪ Developed PLC and HMI based industrial monitoring and controlling system. It monitored and displayed industrial parameters including temperature, humidity, weight management etc. through solenoid valve and waste removal using photo sensor and conveyer. PLC was the main controlling unit and HMI screen displayed all the data acquisition.
Term Projects	▪ Developed a four bit security door lock using PIC microcontroller ▪ Modulator and demodulator for 500HZ signals ▪ 3 Bit CODE checker using XOR gates ▪ Traveling mobile charger
Computer Skills	▪ PLC, HMI, Proteus, LabVIEW, MultiSim, AutoCAD, Packet Tracer ▪ Microsoft Office (Word, PowerPoint, Excel) ▪ Internet, e-mail
Achievements	▪ Participated In a workshop of Atmel Microcontroller at UMT, Lahore ▪ Participated in a workshop of Programmable Logic Controller at UMT, Lahore. ▪ Received certificate in automation (PLC, HMI and SCADA) from Skill Development Council, Lahore ▪ Received certificate of training of Cisco routing and switching devices from Corvit, Lahore
Interests	▪ Innovation, HMI, Digital Systems, Automation and PLC

Waleed Rafiq Butt

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Born 1990

Personal Profile

- Extremely reliable and dependable - analytical and questioning, strives for quality
- Methodical approach to planning and organizing - good time-manager
- Good interpersonal skills - good communicator, leadership, high integrity
- Self-driven and self-reliant - sets aims and targets and leads by example
- Self-aware - always seeking to learn and grow
- Studied Power Electronics, Digital System Design, Computer Network, Optoelectronics and Telecom Switching as elective courses
- **Functional Areas:** Electrical, Electronics, Networking

Education and Qualification

University of Management and Technology (UMT), Lahore
BS Electrical Engineering 2014

Punjab College of Science, Gujranwala
FSc 2009

Spring Field Public School, Gujranwala
Matriculation 2007

Professional Experience

Creative Electronics (Pvt.) Ltd. Lahore Jul 2014– Present
Head of Department

- Did comprehensive analytical research on Energy meters such as Single phase meter
- Worked on calibration benches in order to take appropriate accuracy tests of single phase and three phase energy meters
- Worked on humidity and temperature chambers used for testing of energy meter

GEPCO, Gujranwala Apr – May 2014
Intern

- Learned the power transmission and distribution system and its various parameters which are to be considered while designing
- Learned the importance of power factor in the power system and methods to improve it

Final Project

- Designed and Implemented Auto Theft Detection and Energy Metering System for Distribution Networks. Electricity theft forms a main chunk of non-technical losses (NTL). These losses affect the quality of supply, increase bad on the generating station, and affect tariff forced on actual consumers. This project showed some common methods used by consumers for electricity theft and also presents an architectural distribution system for theft detection using microcontroller based smart energy meter

Term Projects

- Digital Calculator
  Showed result on LED digital display
- Battery Charger
  Demonstrated battery charger by charging battery
  Using Transformer, Resistance, Capacitor, Diodes and Battery
- Water Level Detector in AVR

Computer Skills

- Multisim, PSpice, MATLAB, Proteus,Xilinx.
- C/C++ Programming, Java, Assembly language
- Microsoft Office (Word, Power Point, Excel)

Achievements

- Participated in AVR Training in 2012 at UMT, Lahore

Interests

- Book reading, internet surfing for research, traveling, swimming

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Industrial Engineering

MS
Engineering Management

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