

MUHAMMAD USMAN(Electrical Engineer)

PERSONAL INFORMATION

Address: Village Khushmaqam, Post Office Taru Jabba District Nowshera,
KPK, Pakistan.
PEC REG NO: **ELECT/43917(Pakistan Engineering Council Registration)**
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OBJECTIVES

To be a part of a dynamic organization that benefit from my Engineering, communication and interpersonal skills, besides providing an opportunity for professional growth.

EDUCATION



NATIONAL UNIVERSITY OF COMPUTER & EMERGING SCIENCES (NU-FAST) Peshawar

BSc in Electrical Engineering

● CGPA: **3.57** on a 4 GPA scale; **89%**

Government College Peshawar, Pakistan.

BISE Peshawar

F. Sc. (Pre-Engineering): Secured **836/1100** marks; **76%**

Abaseen Public High School Nowshera, Pakistan

BISE Mardan

Science: Secured **733/900** marks; **81%**

SKILLS

PROGRAMMING SKILLS

● C++, Assembly Language and Verilog HDL Programming

SOFTWARE SKILLS

● MATLAB, Model Sim, Electrical AUTO CAD and Microsoft Office

EXPERIENCE

Working as Site Electrical Engineer from 1.5 year in Ghulam Rasool and Company (PVT) Ltd Multan Pakistan Under Govt Organization PEDO

As Site Electrical Engineer

Job: Working as Site Electrical Engineer, handle documentation and project planning of Karora Hydropower

Project.

● Responsibilities

- Worked on 132 KV Switchyard.
- Worked and supervised on electrical drawings include electrical points, Fire alarm, CCTV cameras and lighting layouts.
- Worked on layouts of turbines according to given drawings.
- Worked on earth of power house.
- Design of earth riser for all equipment's in power house.
- Follow up electrical drawings of power house and colony of power house.
- Supervised the installation of current and power transformers.
- Documentation and submission of reports about site.

Have working experience of 2 years as Electrical Engineer in Innovative Communication (PVT) Ltd Islamabad

As Electrical Engineer

Job: Worked as Electrical Engineer. Also Handel the documentation of Innovative communication.

● Responsibilities

- Worked and Supervised different AC and DC system. Responsible for the Installation of Electrical services.
- Responsible for material submittals and drawing.
- Responsible to make drawings as per Site Installation and submit to Design team for update.
- Can built load schedule and Load balancing in DB's. Works on AUTO CAD and different Electrical drawings on AUTO CAD. Fire alarm system and lighting layout.
- DB tracing, Termination testing and continuity.
- Testing, commissioning and handover of Electrical system.
- Work on both Single Phase and 3 Phase power.

- Work and supervised different kind of rectifier i.e Emerson rectifier.
- Site co-ordination, supervision, and insure to progress of work.
- Installation and Commissioning of different microwave in telecom system.
- Installing and commissioning of different telecom equipment's. Protection of LV, MV and HV system.

❖ POWER GENERATION

- Motors and its maintenance (3 phase, 6KV, 380 V, 440V and 220V)
- Medium Voltage, Low voltage and Step down transformers.
- Circuit breakers (SF6, MOC and Vacuums)
- Earth and light arresters (Copper Rod, PVC Pipe, Earth powder and conductors)
- Fault detection, Cabling and joints.
- Medium Voltage, Low voltage and Step down transformers.
- Electrical tools.

❖ Telecom

Alcatel Lucent Technology

- M/W links commissioning [1+0, 1+1 HSB, 1+1 , XPIC (1+ 0 & 1 + 1 HSB)].SDH and PDH link.
- Cutover activities on SDH/PDH rings. Perform end to end media connectivity and IP integration.
- License key up gradation. Capacity up gradation between two links.
- E1 patching, cut over flow IDs. Cross connection.
- Software and hardware up gradation from 1+0 to 1+1. Software up gradation of MPR (1 C, MSS8 and MSS4). 3G integration and VLAN.
- Hardware up gradation of MPR Links from XPIC (1 + 0) to XPIC (1+1) HSB.

Ericsson Technology:

- Having experience on RBS-2000 Series (Feeder Solution outdoor).
- Generating the IDB file according to the site configuration.
- Defining ALARMS through OMT alarms inlet.
- Verifying Alarms through OMT & then from NOC.
- Installation of TN magazine (2P, 6P & 20P).
- Installation of MMU-2 cards in magazine.
- Configuring cards via MINILINK CRAFT.
- Installation and alignment of MINILINK MICROWAVE DISH for traffic utilization.
- Implementation of DCN plan.
- Quality check for PAT.

❖ Report Writing and Documentation

INTERNSHIP

Pakistan Telecommunication Company Limited

Peshawar

Intern: Switching Department

- Got familiarized with the systems like DLU, LTG, SN, CCNC, MB & CP.

Alcatel-Lucent Pakistan Limited

Islamabad

Intern: BSS Department

- Got familiarized
 - Installation, commissioning and call testing of indoor and outdoor BTS of Alcatel equipment.
 - Configuration of 9500 MPR (MSS8, MSS4 and 1C) and AWY.

PROJECTS

FINAL YEAR PROJECT:

Speaker Recognition using Mel-Frequency Cepstral Coefficient (MFCC)

Objective:

Objective of our project is to design text independent Speaker Recognition system by MFCC Algorithm. Speaker Recognition is the identification of the person who is speaking by characteristics of his voice.

PUBLICATIONS

JOURNAL PAPER

Shibli Nisar, Mushtaq Ali Khan, **Muhammad Usman**, " Iris Recognition using Mel- Frequency Cepstral Coefficient" IJER, 2014.

HONORS

- Dean's List of Honors for Excellent Academic Achievements, Fall 2011.
- Dean's List of Honors for Excellent Academic Achievements, Spring 2011.
- Dean's List of Honors for Excellent Academic Achievements, Fall 2012.
- Dean's List of Honors for Excellent Academic Achievements, Spring 2012.
- Dean's List of Honors for Excellent Academic Achievements, Spring 2013.

CERTIFICATES

- Merit certificate Awarded by FAST NU for securing First Position in 3rd semester in the Department of Electrical Engineering.
- Merit certificate Awarded by FAST NU for securing third Position in 6th semester in the Department of Electrical Engineering.
- Certificate Awarded by Pakistan Telecommunication Company Limited for completion of 8 Weeks Internship at telephone house-I the mall Peshawar cantt.
- Certificate Awarded by FAST Engineering Society (FES) for attending the AUTOCAD WORKSHOP.
- Certificate Awarded by Fast Soul Society for arranging an event "Peace Day" as a Security Organizer.
- Certificate Awarded by SOL Foundation, Future First and HSBC for Participating in the seminar on career development.
- Certificate Awarded by FAST NU for organizing an event on the National level as a Head Organizer by the name of NUTEC.

MEDALS

- Gold Medal Awarded by FAST-NU for securing First Position in the Department of Electrical Engineering in Fall 2011 Semester.
- Silver Medal Awarded by FAST-NU for securing 2nd Position in the Department of Electrical Engineering.

LANGUAGES

- Pashto: Mother tongue
- English: Native level
- Urdu: Native level

References will be provided on demands.