

# Muhammad Usman

HOUSE # B-6 PHASE 2 GULSHAN E HADEED KARACHI, PAKISTAN

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## OBJECTIVE

To work as a professional to bring out my potentials and perform at my utmost ability, in order to enhance my knowledge and fully utilize both my technical and managerial abilities.

DEGREE/QUALIFICATION	INSTITUTION	MARKS OBTAINED	PASSING YEAR
B.S. Electrical Engineering	FAST– National University of Computer and Emerging Sciences	1 <sup>st</sup> Div	2016
Intermediate (Pre-Engineering)	Intelligentsia Science College Moro	69%	2012
Matriculation ( Science)	Intelligentsia Science College Moro	70%	2010

## PROFESSIONAL EXPERIENCE

ORGANIZATION	DUTIES AND RESPONSIBILITIES	DESIGNATION & DURATION
<b>Dawlance Group Of Companies</b> 	<ul style="list-style-type: none"><li>➤ Worked in Quality control department.</li><li>➤ Worked in safety department.</li><li>➤ Learned basics Of PLC Automation.</li></ul>	<b>Intern</b> June 22 <sup>th</sup> ,2014 To June 27 <sup>th</sup> ,2014
<b>Pakistan Steel Mills</b> 	<ul style="list-style-type: none"><li>➤ Studied in-depth phenomenon of Electrical Instruments.</li><li>➤ Working &amp; maintaining their equipment.</li><li>➤ Understood the basics of the Thermal Power Plant.</li></ul>	<b>Intern</b> July 13 <sup>th</sup> ,2015 to August 7 <sup>th</sup> ,2015

## PROJECTS

### ***Final year project***

#### **GSM Based Electricity Theft Detection Cum Fault Notification System**

The project aims to provide a theft proof system for electricity supply. Our proposed system will take all the readings of power supply from PMT to Meter and will take feedback from Consumer End to make sure that there is no electricity theft, tapping. All this will be done by the interfacing the GSM and Micro-controller with PMT and the Consumer end (power meter).

GSM at the consumer end will give the feedback to the GSM at PMT continuously in a set time interval. And will compare these two values (i.e Power Flowed from PMT and Power Used at Consumer End), if there will be any mismatch between these two it will notify to HMI. This idea can be implemented in domestic distribution lines which will help to reduce electricity theft and will notify faults.

#### UNDERGRADUATE PROJECTS:

**ELECTROMECHANICAL SYSTEMS** – High efficiency Wind Turbine Generator, High efficiency Transformer, Power System Transmission Analysis MATLAB Program

**POWER ELECTRONICS** – Transformer based/Transformer-less Inverters, Buck-boost Inverter and High performance sine wave UPS systems

**MICROCONTROLLERS** –GSM based Home Automation, Line Follower Robot, Maze Solving Robot, GPS tracking Robot

#### PERSONAL SKILLS AND COMPETENCES

COMPUTER SKILLS	PROGRAMMING SKILLS	SOFT SKILLS
<ul style="list-style-type: none"> <li>➤ Multisim</li> <li>➤ PSpice</li> <li>➤ AutoCAD</li> <li>➤ MS Office</li> <li>➤ DIPTRACE(PCB DESIGN)</li> <li>➤ Etap</li> </ul>	<ul style="list-style-type: none"> <li>➤ HMI</li> <li>➤ MATLAB</li> <li>➤ CISCO Packet Tracer (Basic)</li> <li>➤ LABVIEW</li> <li>➤ FPGA</li> </ul>	<ul style="list-style-type: none"> <li>➤ Time Management</li> <li>➤ Multitasking</li> <li>➤ Project Planning</li> <li>➤ Team Player</li> </ul>

#### Major subjects

- Electrical power engineering
- Industrial process control
- Feedback control system
- Data communication and Networking
- Power System Analysis

#### COMMUNICATION SKILLS

- Good Communication and Technical Report writing skills.
- Technical Reports including Research, Proposal, Progress, Presentations etc.
- English Proficiency: English course (FAST-NU).

#### ACHIEVEMENTS

- Three years “**Scholarship**” by Sindh Govt at FAST NATIONAL UNIVERSITY.
- **Head** of Network Designing Competition at PROCOM’16 at FAST NATIONAL UNIVERSITY.