

# ***IQRA BIBI***

*Electrical Power Engineer*

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I am professional engineer, having a bachelor degree in Electrical from the COMSATS Institute of Information Technology Abbottabad. I have developed my professional skills in hardware designing, software programming, circuit designing and professional use of engineering softwares including MATLAB, Proteus, C++, Power World Simulator and during my under graduate studies and post graduate experience.

## **EDUCATION**

Year	Degree Title	Institute	Grade
2017-2019	MS Electrical Engineering (Power)	COMSATS Institute of Information and Technology, Abbottabad	3.66 CGPA
2012-2016	B.Sc Electrical Power Engineering	COMSATS Institute of Information and Technology, Abbottabad	3.04 CGPA
2009-2011	Higher Secondary School Certificate	Jinnah Jame School and College, Haripur.	83.90%
2005-2007	Secondary School Certificate	Jinnah Jame School and College, Haripur.	88.66%

## **PROFESSIONAL EXPERIENCE**

- Integral calculator using 8051 microcontroller interfacing with keypad and LCD.
- Designing AC to DC Power Supply.
- Designing a 500W transformer.
- LED chaser using 555 timer.
- Power supply to provide both fixed and variable voltages.
- A Darlington amplifier having a gain of 800.
- Designing two-digit pulse counter.
- Designing a mono-stable vibrator.
- Designing Armstrong's AM modulator in Simulink.
- Designing 3-phase, 12-pulse rectifier.
- Speed control drive for DC motor using PID microcontroller.

## **UNDER GRADUATE PROJECT**

### **Final Year Project: "SMART Wireless Controlled Digital Energy Meter"**

- Design DC Motor
- Develop Digital Clock
- Develop a smoke detector (Implemented on breadboard)
- Develop a heartbeat sensor (Implemented on breadboard)

## **ENGINEERING TOOLS**

**Languages:** C, C++, OPENCV

**Softwares:** MATLAB, PSpice, MS Office, C++, Proteus, Altium, AutoCAD

**Operating Systems:** Microsoft Windows XP/ 7/ 8, Ubuntu.

## **MAJOR COURSES**

- Power System Protection
- Electric Machine

- Control System
- Power Electronics
- Digital Signal Processing
- High Voltage
- Power Generation
- Power Transmission & Distribution
- Power Generation
- Electric Circuits

## INTERNSHIP

1. **Organization:** *Telephone Industries of Pakistan (pvt) Ltd.*

**Duration:** 6 weeks

**Task performed:**

- Worked on EWSD switch.
- Worked on ZTE switch.
- A short introduction to NGN(Next Generation Network)

2. **Organization:** *National Radio Telecom Corporation*

**Duration:** 6 months

**Task performed:**

- Worked on Covert Surveillance System Project.
- Worked on Ubuntu.
- Worked on PCB designing using Proteus and Altium.
- Worked on Speech Recognition Project(Extend dictionary by adding Urdu language words)
- Sorting out the different SMT and THT components based on the manufacture and manufacture's part #.

## Achievements

- Registered Engineer of Pakistan Engineering Council.
- Got overall 19th Position from Abbottabad Board in SSC.
- Got overall 16th Position from Abbottabad Board in HSSC.
- Got scholarship from Worker Welfare Board (WWB) throughout my BS

## Co-Curricular Activities

- Member of IEEE EMCOT at CIIT Abbottabad
- Voluntary student coordinator for a Jinnah Jame School & College departmental level Science exhibition
- Playing games

## REFERENCES

Reference will be furnished on demand