

Muhammad Usama Babar

Electrical Engineer

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EDUCATION

Pakistan Institute of Engineering & Applied Sciences (PIEAS)

2019- 2024

BS in Electrical Engineering | CGPA: 3.49 / 4.0

Islamabad, Pakistan

Courses: Power Electronics, Electrical Machine Design, Linear Control System, Power Generation, Power System Analysis, Power System Protection, Power Transmission Distribution and Utilization, Electric Machine Design, High Voltage Engineering

Thesis: Stability Analysis of Grid Connected Wind Power Generation Systems

Muslim College of Science and Commerce

2017-2019

F.Sc Pre-Engineering | Grade: A+ (1025/1100)

Multan, Pakistan

Muslim Public Higher Secondary School

2015-2017

Matric | Grade: A+ (1061/1100)

Multan, Pakistan

PROFESSIONAL EXPERIENCE

Eco Cart Energy

July 2024 – Oct 2024

Technical Sales Engineer

Lahore, Pakistan

As a Technical Sales Engineer at Eco Cart Energy in Lahore, I connect clients with the right solar panels and inverters, providing technical consultations and product demos. I work closely with our engineering team to ensure our solutions meet client needs and deliver top-notch performance.

National Transmission & Despatch Company (NTDC)

June 2023 - Aug 2023

Intern

Multan, Pakistan

I completed a two-month internship at the 220kV NGPS Piranghaib Multan Grid Station, during which I gained experience and learned about various aspects such as protection, operation, maintenance, and instrumentation. I worked under the supervision of Sub-Divisional Officer Rauf Dogar.

Multan Electric Power Company (MEPCO)

Aug 2023 - Sep 2023

Intern

Multan, Pakistan

I completed a fifteen-day internship at the T&I Division, GSC, MEPCO WAPDA under SDO Sajid. During this internship, I gained valuable knowledge and hands-on experience in the field of transmission and instrumentation.

Assistant to Lab Engineer at Circuit Analysis-II Lab PIEAS, ISLAMABAD

Feb 2024 – Jun 2024

Applied expertise in circuit analysis as a lab assistant under job shadowing program at PIEAS, facilitating experiment design, student guidance, and meticulous data collection for Circuit Analysis 2 laboratory sessions. Demonstrated proficiency in documenting experiment procedures, results, and observations to enhance the learning experience.

PROJECTS

- Stability Analysis of Grid Connected Wind Power Generation Systems (Final Year Project)
- Regulated voltage power supply using Zener diode
- Stepper Motor Control using logic gates
- Design a voltage amplifier using op-amps
- Design a distribution system with improvement in Power Factor

SKILLS

- Interpersonal:** Effective communication, Active listening, Relationship Building, Positivity, Time management, Teamwork, Patience, Confidence, Problem-solving
- Softwares:** Keil IDE, STM32CubeMX, Ltspice, Proteus, Multisim, MATLAB, Etap, Power World Simulator, Simulink
- Programming Languages:** C, C++, Assembly, LATEX

VOLUNTEER WORK

- Treasurer at IEEE PIEAS SB | 2023-2024
- Head Outreach Team IEEE PIEAS | 2022-2023
- Worked as the head of Public Relations at Welfare Society Rah-e-Roshan for two years.

ACTIVITIES AND HONORS

- Achieved triumph in basketball at Sports week
- Earned the best Debater award at the Rebuttal event hosted by PIEAS Literary Society
- Secured victory in tug of war at Sports Week

PIEAS | 2024

PIEAS | 2023

PIEAS | 2023