

Engr. Muhammad Usman Tariq

Islamabad, Pakistan

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EDUCATION

COMSATS University Islamabad

Bachelor of Science in Electrical Engineering

Wah, Pakistan

September 2019 – July 2023

PROFESSIONAL EXPERIENCE

Internship

January 2024 – July 2024

Pakistan Engineering Council, Islamabad, Pakistan

- Effectively resolved IT and network issues, ensuring minimal downtime and optimal performance.
- Managed network infrastructure, including configuration and maintenance, to ensure reliable and secure operations.
- Worked closely with teams and stakeholders to address network challenges and deliver technical support.
- Maintained power distribution systems, ensuring uninterrupted operation and compliance with safety standards.
- Supervised the maintenance of solar power systems, ensuring peak efficiency and reliability.

Internship

November 2023 – December 2023

Huawei, Islamabad, Pakistan

- Gaining hands-on experience in 2G, 3G, 4G architectures, and protocols.
- Explored Packet Switched (PS) technology, understanding its role in data transmission over networks.
- Explored VoLTE technology, focusing on its impact on call quality and efficiency over LTE networks.
- Investigated Circuit Switched (CS) technology and its traditional connection methods.

Internship

July 2022 – August 2022

Islamabad Electric Supply Company, Pakistan

- At IESCO 132kV grid station involved hands-on experience in power distribution systems, transformer maintenance, and fault analysis.
- Employed technical expertise to troubleshoot electrical issues, fostering grid reliability.
- Enhanced comprehension of high-voltage equipment through hands-on experience and problem solving.
- Contributed to the maintenance of grid stability by applying adept troubleshooting skills.

ACADEMIC PROJECTS

Bicycle Power Meter (FINAL YEAR PROJECT)

- Designed Bicycle Power Meter System with strain gauges.
- Integrated advanced signal processing algorithms for precise power measurement.
- Enabled wireless communication for real-time data transfer.
- Enhanced user experience with mobile application insights.

SKILLS & COMPETENCIES

Programming, Databases: C++, MATLAB, MS Access

Design/Simulation: LT-Spice, Proteus, Multisim, AutoCAD, Microcontroller Interfacing, Arduino, Latex

Language Proficiency: English, Urdu

ACHIEVEMENTS

Pakistan Engineering Council, Islamabad, Pakistan

- Role of Honor for Automation Drive IT year 2024.