



# MUHAMMAD ZEESHAN RAMZAN

## A Proficient Electrical Engineer

Results-driven Electrical Engineer with 5 years of experience in power systems, substation operations, and electrical maintenance. Seeking to apply expertise in installation, troubleshooting, and high-voltage system optimization to enhance operational efficiency and reliability. Committed to delivering cost-effective solutions while ensuring safety, compliance, and system performance in industrial and infrastructure projects.



Madina, KSA



jamzeeshan12@gmail.com



Tap to WhatsApp  
+96 6540913861



9-January-1997



Linkedin.com/in/Engr-m-Zeeshan-Ramzan

## SKILLS

- Electrical System Design
- Power Distribution & Load Management
- High-Voltage Equipment Maintenance
- Circuit Analysis & Troubleshooting
- Electrical Quality Control & Inspection
- Substation Operations & Maintenance
- PLC & SCADA Systems
- Drive Testing & Network Optimization
- RF Signal Analysis
- Testing & Commissioning
- Fault Detection & Isolation
- Technical Reporting & Documentation
- Project Coordination & Execution
- Compliance & Safety Standards
- Cross-Functional Team Collaboration

## PROFESSIONAL REGISTERED ENGINEER

- Saudi Council of Engineers (Membership No. 1171658)
- Pakistan Engineering Council (Registration No. Elect/85592)

## EDUCATION

### ICBT Gulberg, Lahore

Primavera P6 20.12

January 2022

### University of Engineering and Technology (UET), Taxila Pakistan

2020

Bachelor of Science in Electrical Engineering, Pakistan | **CGPA: 3.17/4.00**

- Final Year Project:** Real-Time Face Detection & Tracking using Visual Basic, Arduino, and a webcam for high-speed human face recognition in automation and surveillance applications.

## WORK EXPERIENCE

### Drive Test Engineer

April 2023 – July 2025

Telecom Turnotech (Pvt.) Ltd., Islamabad | **Project:** CMPAK Roll Out

- Network Performance Analysis:** Conduct extensive drive tests to assess network performance, ensuring optimal signal strength, minimal call drops, and seamless connectivity for CMPAK Roll Out.
- Data Collection & Optimization:** Utilize advanced testing tools to gather real-time RF data, analyze coverage gaps, and implement targeted optimization strategies to enhance network quality.
- Troubleshooting & Issue Resolution:** Identify and diagnose network issues, including interference, weak signals, and coverage black spots, while providing actionable solutions for improved network efficiency.
- Reporting & Technical Documentation:** Prepare detailed reports on network performance metrics, test results, and optimization recommendations, ensuring clear communication with stakeholders and compliance with telecom standards.

### Electrical Site Engineer

September 2022 – March 2023

Indus Dyeing & Manufacturing Co. Ltd., Khanpur Shumali, MM Road, Muzaffargarh, Pakistan

- Electrical Installations & Compliance:** Supervised the installation of electrical systems, ensuring adherence to industry standards, safety regulations, and manufacturing plant requirements.
- Maintenance & Troubleshooting:** Conducted preventive and corrective maintenance of electrical equipment, diagnosing faults, and implementing effective troubleshooting solutions to minimize downtime.
- Project Coordination & Execution:** Assisted in planning, scheduling, and executing electrical site activities, ensuring seamless integration with overall plant operations and project timelines.
- Power Distribution & System Optimization:** Monitored and optimized power distribution within the manufacturing facility, ensuring stable voltage supply and energy efficiency to support production processes.

### Electrical Engineer (E&P)

October 2020 – September 2022

DESCON Engineering Limited | **Project:** Mohmand Dam, KPK

- Electrical System Installation & Commissioning:** Provided technical expertise in the installation, commissioning, and testing of electrical systems for Mohmand Dam, ensuring compliance with engineering standards and project requirements.
- Component Selection & Integration:** Identified and sourced critical electrical components, including cables, connectors, fuses, and circuit breakers, ensuring compatibility with high-voltage infrastructure in a power generation environment.
- System Modifications & Optimization:** Designed and implemented electrical system upgrades and modifications to enhance operational efficiency, reliability, and safety in large-scale hydroelectric power projects.
- Preventive Maintenance & Troubleshooting:** Performed routine inspections, maintenance, and fault diagnostics on electrical equipment, ensuring uninterrupted power distribution and minimizing downtime in dam operations.

## Substation Engineer

August 2019 – March 2020

Pakistan Ordnance Factory, Wah Cantt, Punjab, Pakistan

- **Substation Installation & Maintenance:** Oversaw the installation, maintenance, and operation of electrical substations, ensuring uninterrupted power supply to critical defense manufacturing facilities.
- **System Testing & Compliance:** Conducted thorough inspections and performance testing of high-voltage electrical equipment, ensuring compliance with national safety standards and operational reliability.
- **Power Distribution & Load Management:** Monitored and optimized power distribution networks within the facility, ensuring stable voltage regulation and efficient energy utilization.
- **Fault Diagnosis & Corrective Measures:** Identified and troubleshooted electrical faults, implementing timely corrective actions to prevent disruptions in manufacturing operations and maintain system integrity.

## Electrical QC Inspector

December 2018 – July 2019

Skyways Contracting Company, Islamabad, Pakistan

- **Electrical Quality Inspections:** Conducted detailed quality control inspections of electrical installations, ensuring adherence to project specifications and industry standards.
- **Regulatory Compliance & Safety Assurance:** Ensured all electrical systems complied with national safety regulations and construction codes, minimizing risks and ensuring a safe work environment.
- **Non-Conformance Identification & Resolution:** Identified discrepancies in electrical installations, documented non-conformities, and collaborated with project teams to implement corrective actions.
- **Testing & Verification:** Performed functional testing of electrical systems, including wiring, panels, and grounding, ensuring optimal performance and reliability before final commissioning.

## INTERNSHIP

### Electrical Engineering Intern

(Thermal Power Plant – 1350 MW Generation, Muzaffargarh, Pakistan)

- **Power System Monitoring & Analysis:** Conducted daily inspections of the power generation systems, switchyard, and high-voltage transmission lines to ensure operational efficiency.
- **Equipment Testing & Troubleshooting:** Assisted in testing Variable Frequency Drives (VFDs), circuit breakers, Current Transformers (CTs), and relays to identify faults and enhance system reliability.
- **Control Systems & Protection Mechanisms:** Gained hands-on experience with Programmable Logic Controllers (PLCs), motor control circuits, and transformer operations, ensuring a deep understanding of power system automation.
- **High-Voltage Operations & Safety Compliance:** Participated in the installation, maintenance, and fault detection of high-voltage lines, following safety protocols and executing Permit to Work (PTW) procedures on 11KV feeders.

## PERSONAL PROJECTS

### Aerial Surveillance Drone Project (2020)

- Designed and developed a UAV-based aerial surveillance system equipped with real-time video transmission and object detection capabilities. Integrated GPS navigation and autonomous flight features to enhance security and monitoring applications.

### Underground Cable Fault Detection System

- Engineered a fault detection system for underground power cables using advanced signal processing techniques. Implemented real-time monitoring to locate faults accurately, reducing maintenance time and improving power distribution reliability.

## ACCOMPLISHMENTS

- **Recognized for Outstanding Performance:** Received exceptional performance reviews during Advanced Individual Training, excelling in coursework and technical proficiency.
- **Cross-Functional Coordination:** Served as a liaison between contractors and technical management, ensuring seamless project execution and compliance with technical requirements.
- **Enhanced Team Communication:** Facilitated effective communication between cross-functional teams, improving collaboration and project efficiency.
- **Electrical Testing & Fault Isolation:** Developed and implemented testing programs for analog/digital circuitry, conducting comprehensive diagnostics including continuity, resistance, insulation, breakdown, and impedance analysis.
- **Emergency Preparedness & Response:** Conducted readiness drills for electrical failure scenarios, ensuring swift and effective response to minimize downtime and maintain system reliability.