

JAVED ALI

Electrical Engineer with 4 year Experience

+966534810483 Javedalikolachi55@gmail.com Jeddah, Saudi Arabia. **Iqama:** Transferable

SUMMARY

Results-oriented Electrical Engineer with a proven track record of optimizing project outcomes and driving engineering excellence. Skilled in strategic project management, system design, and team leadership. Adept at delivering innovative solutions, ensuring technical performance, and managing complex projects to completion. Seeking a challenging role to leverage technical expertise, enhance operational efficiency, and contribute to the success of engineering initiatives.

TECHNICAL SKILLS

Electrical: Design and development of electrical systems for construction projects.

Safety: Monitoring and compliance of electrical installations.

CAD: Proficient in AutoCAD and electrical drawing software.

Management: Project management and coordination expertise.

Risk: Risk management and mitigation strategies.

Estimation: Cost estimation and budgeting (BOQ calculation).

Solar: Solar installation and commissioning expertise.

Regulations: Knowledge of electrical safety standards and regulations.

Quality: Quality control and assurance expertise.

Leadership: Team leadership and collaboration skills.

Lifecycle: Project lifecycle management expertise.

WORK EXPERIENCE

M Brothers Solar Solutions

Karachi, Pakistan

Project Engineer

Aug 2024 - Dec 2024

Key Responsibilities:

- Electrical System Installation:** Supervised the installation of electrical systems for photovoltaic (PV) solar plants, including DC cabling, inverters, and protection systems.
- System Integration:** Coordinated the integration of solar inverters, transformers, and AC/DC switchgear with the grid to ensure seamless energy flow and optimal system efficiency.
- Technical Troubleshooting:** Diagnosed and resolved electrical faults, ensuring minimal downtime and restoring system performance in compliance with IEC and IEEE standards.
- Site Supervision:** Managed site activities, including the installation of high-voltage and low-voltage electrical components, ensuring strict adherence to project specifications, safety regulations, and design drawings.
- Commissioning & Testing:** Conducted pre-commissioning and commissioning tests, including Insulation Resistance Testing (IRT), Grounding System Verification, and Open Circuit Voltage (Voc) to verify system integrity and performance.
- Quality Control & Safety Compliance:** Ensured all installations and activities complied with international safety standards (IEC 62446, IEC 61800) and local electrical codes, conducting routine safety audits and risk assessments.
- Documentation & Reporting:** Maintained detailed engineering logs, including daily site reports, electrical drawings, progress updates, and testing records to ensure quality control and project transparency.
- Team Coordination:** Led a team of electrical technicians and subcontractors, providing guidance on electrical installations, technical procedures, and safety measures.

Renewable Power Pvt. Ltd.**Project Engineer****Karachi, Pakistan****Aug 2023 - July 2024****Key Responsibilities:**

- **Electrical System Installation:** Supervised the installation of DC and AC electrical systems, including solar inverters, transformers, cabling, and switchgear for utility-scale solar power projects.
- **System Integration & Commissioning:** Led the integration of solar power systems with the grid, ensuring proper synchronization and seamless operation of inverters, transformers, and electrical protection systems.
- **Testing & Validation:** Conducted thorough testing of electrical systems, including Insulation Resistance Tests (IRT), Earth Fault Loop Impedance Tests, and Open Circuit Voltage (Voc) measurements to verify system integrity and functionality.
- **Troubleshooting & Maintenance:** Identified and resolved electrical faults across both low-voltage and high-voltage systems, ensuring minimal downtime and compliance with safety standards. Utilized advanced diagnostic tools to troubleshoot inverters, cables, and protection systems.
- **Safety & Compliance:** Enforced compliance with local electrical codes and international standards such as IEC 62446, IEC 61800, and IEEE. Led site safety audits and ensured that all electrical installations adhered to NEC and local safety protocols.
- **On-site Coordination & Supervision:** Managed daily site activities, supervising installation teams, subcontractors, and technicians. Ensured that electrical components were installed according to design specifications and engineering drawings.
- **Documentation & Reporting:** Maintained accurate records of system installation, commissioning procedures, testing results, and safety audits to ensure traceability and quality assurance.

RENEWABLE POWER PVT LTD.**Trainee Engineer****Karachi, Pakistan****Jan 2023 - July 2023****Key Responsibilities:**

- **System Design & Development:** Assisted in the designing and modeling of electrical circuits for solar energy systems, including DC/AC conversion, wiring layouts, and power distribution for residential, commercial, and industrial applications.
- **Electrical Load Analysis & Optimization:** Performed detailed load calculations and voltage drop analysis to ensure accurate system sizing and efficient energy distribution in line with project requirements.
- **Component Selection:** Collaborated with senior engineers to select and specify electrical components such as solar panels, inverters, charge controllers, and batteries, ensuring they met performance criteria and electrical standards.
- **Site Assessment & Integration:** Conducted site evaluations to assess electrical infrastructure, performing fault analysis and recommending upgrades to integrate solar systems seamlessly into existing electrical networks.
- **System Testing & Troubleshooting:** Assisted in the testing and commissioning of solar energy systems, performing tests on insulation resistance, earth fault loop impedance, and system grounding to verify safety and functionality. Identified and resolved electrical issues in both the design and installation phases.
- **Regulatory Compliance:** Ensured all designs and installations adhered to IEC, IEEE, and local electrical standards, conducting periodic audits and assisting with compliance documentation.

AL MANSOOR CONSTRUCTION & ENTERPRISES

Trainee Electrical Engineer

Karachi, Pakistan

May 2021 - Nov 2022

Key Responsibilities :

- Assisted senior electrical engineers in the **design, installation, testing**, and maintenance of electrical systems for residential, commercial, and industrial projects.
- Supported the preparation of **electrical schematics, wiring diagrams**, and technical drawings for various construction projects.
- Performed site inspections and **supervised electrical installations** to ensure compliance with safety regulations, quality standards, and project specifications.
- Conducted testing and troubleshooting of electrical systems, identifying faults, and assisting in the development of corrective solutions.
- Participated in the planning and coordination of electrical work schedules, ensuring timely completion of tasks and minimizing project delays.
- Assisted in the preparation of **project reports and documentation**, including progress updates, material inventory, and resource allocation.
- Gained hands-on experience with various electrical systems, such as lighting, power distribution, backup generators, and low voltage systems.
- Collaborated with multidisciplinary teams, including architects, contractors, and project managers, to ensure efficient project execution.
- Conducted electrical load calculations and supported the selection of appropriate materials and equipment for each project.
- **Monitored safety protocols on-site**, contributing to the maintenance of a safe working environment for all team members.

ERA AUTOMATION & LAB PVT LTD

Trainee Engineer

Karachi, Pakistan

Nov 2020 - Apr 2021

Key Responsibilities :

- Assisted in designing and developing automation systems for industrial applications.
- Conducted site assessments and performed troubleshooting for automation systems.
- Developed and implemented engineering plans, specifications, and standards.
- Collaborated with stakeholders to select suitable system components (sensors, actuators, PLCs).
- Assisted in testing and commissioning of automation systems.
- Coordinated with cross-functional teams to ensure project deliverables.
- Assisted in preparing technical documentation and reports.
- Participated in training and development programs to enhance technical skills.

INTERNSHIPS

- **JAMSHORO POWER COMPANY PVT LTD (GENCO-I)** 27/01/2023 - 10/02/2023
JAMSHORO SINDH
- **NTDC 500/220 KV GRID STATION JAMSHORO SINDH** 16/02/2022 - 04/03/2022
JAMSHORO SINDH

EDUCATION

- Bachelor of Engineering in Electrical 2019-2023
Hamdard University Karachi Karachi, Sindh Pakistan

ADDITIONAL INFORMATION

- **Technical Skills:** Project Management, AutoCAD Electrical, PLC (basic), MS Office, Electrical Transient and Analysis Program(ETAP)
- **Soft Skills:** Critical Thinking Time management Problem Solving Teamwork and collaboration
- **Languages:** English, Urdu, Sindhi
- **Nationality :** Pakistani

INDUSTRIAL VISITS

- **K-electric 132 KV Grid station Valika**
Karachi, Sindh Pakistan
- **Pakistan Telecommunication Ltd (HQ)**
Karachi, Sindh Pakistan
- **Habib Sugar Mills Company Pvt Ltd**
Nawabshah, Sindh Pakistan

CERTIFICATIONS

- **THE DIGITIZED GRID - IEEE**
- **Intelligent Control of Connected and Automated Vehicles - IEEE**
- **Green Investment : Renewable Energy**
Asian Development bank institute
- **AutoCAD**
DigiSkills.pk
- **Drone Workshop**
Sukkur IBA University
- **Icomet 2019**
Sukkur IBA University