

Asfand Shaheryar
Electrical Engineer

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Profile

A confident, multilingual, and motivated engineer with excellent interpersonal skills and international experience. Professional Engineer working in the field of electrical engineering.

Professional Experiences

- July 2023–Present **Al Ghazali University**, Karachi Pakistan
Assistant Engineer, Department of Energy
- Directed all Power, Control, R&M, and Water-related operations for a university campus, including managing a 15-member technical team
 - Modernized the campus infrastructure by installing PLC and SCADA systems for internal electrification, and overseeing the design, installation, and commissioning of a 500-kW grid-tied solar PV system.
 - Managed the operation, maintenance, and optimization of the campus electrical grid (600-kW load), including programming PLC logic and developing SCADA HMI for generator synchronization and dynamic load management.
- Nov 2022- Jun 2023 **D. H. A Brothers**, Karachi Pakistan
Site Engineer Engineering Department
- Managed and led all on-site electrical engineering activities for high-rise residential/commercial projects, ensuring adherence to design specifications, local codes (K-Electric/NEPRA), and safety standards.
 - Oversaw the full lifecycle (installation, testing, commissioning) of electrical systems LT/HT switchgear, transformers, generators and distribution panels.
 - Coordinated stakeholders, executed quality control/site inspections, and prepared essential project documentation to maintain timelines and budgets.
- Mar 2021–Aug 2022 **Hi-Tech Networks Limited**, Lahore Pakistan
Maintenance Engineer Department of R&M Wing
- Improved system uptime and streamlined workflows through the maintenance and operation of power equipment.
 - Achieved 98% generator uptime by performing comprehensive preventive maintenance, inspections, and repairs, ensuring compliance with safety standards
 - Reduced internal request response times by 40% by implementing a centralized task management system, which also streamlined administrative workflows and cross-departmental collaboration
- Jun 2020- Mar 2021 **A. D. Construction (Pvt) Ltd**, Karachi Pakistan
Project Engineer Engineering Department
- Spearheaded the end-to-end installation of 15+ commercial and residential solar power systems, managing project planning, resource allocation, and quality assurance, which resulted in 98% operational efficiency through expert field engineering, site assessments, troubleshooting, and preventive maintenance.
 - Led and mentored a team of 10+ field technicians, effectively enforcing safety protocols and achieving a 40% reduction in on-site incidents

Projects

Aug 2022-Present

Renewable Energy

Project Manager AEG Solutions, Karachi Pakistan

- Large-Scale Utility & Off-Grid Development: Successfully led the design and deployment of a 1.23 MW solar farm generating 1.8 GWh/year for large-scale operations and delivered a 160 kW off-grid solution ensuring 24/7 power supply for a cattle farm.
- Commercial Execution & Campus Electrification: Executed the installation of three commercial-scale Solar PV systems (110 kW - 120 kW each) for Al-Ghazali University (Units #2, #3, #4), collectively powering 80% of campus facilities.
- Grid Reduction & Energy Savings: Led the design and installation of a 75 kW Grid-Tied System that reduced grid dependency by 35% and resulted in annual energy savings of 120 MWh.

Aug 2022-Present

Industrial Automation

Project Manager AEG Solutions, Karachi Pakistan

- Engineered a campus-wide automation system for Al-Ghazali University, integrating 50+ IoT devices and cutting manual operations by 40%.
- Improved energy efficiency by 25% at Jamia Tur Rasheed and Madrasa Arabia Raiwind by implementing PLC-driven systems with real-time monitoring.
- Designed a bespoke automation solution for Mailma Restaurant Karachi, streamlining HVAC and lighting controls to reduce energy costs by 30%.

Aug 2022-Present

Energy Efficiency & Management

Project Manager AEG Solutions, Karachi Pakistan

- Conducted audits for Al-Ghazali University, Jamia Tur Rasheed, and Madrasa Arabia Raiwind, resulting in the identification of cost-saving opportunities.
- Performed a granular energy analysis for Asian Continental Pharma Limited, leading to recommended upgrades that reduced energy consumption by 22% post-implementation.

Education

Jan 2016-Feb 2020

Khawaja Fareed University of Engineering and Information Technology, Pakistan

Bachelor of Science in Electrical Engineering (BSEE)

Field of Specialization: Electrical Power Engineering

Personal Skills

Computer Skills	Good command of Office (Word, Excel, PowerPoint, ETAP, EPlan, AutoCAD Electrical, Siemens TIA Portal, PVsyst, Helioscope, MATLAB, LaTeX)
Technical Skills	MV/LV Distribution, Switchgear, Load Flow Analysis, Short Circuit Analysis, Transformer Sizing, Grid Synchronization, Solar PV Design, Grid-Tied Systems, Off-Grid Solutions, NEC Standards, IEC Standards, NEPRA Codes, HSE Protocols, OSHA/Safety Compliance.
Communication Skills	Technical Documentation, Cross-functional Teams, Client/Vendor Negotiation

Certifications

- Register Engineer (RE) License, [Pakistan]
- Professional Certificate in Project Management & Leadership Skills
- Professional Certificate in Risk Management
- Professional Certificate in Operations Management
- Six Sigma: Lean Six Sigma Yellow Belt (Accredited)
- Six Sigma: Lean Six Sigma White Belt (Accredited)
- Quantity Surveying & Building Estimate
- Prioritizing activities as a decision maker and leader
- Occupational Health and Safety
- Lean & Quality Management, Six Sigma, Continuous Improvement