

Khalid Hussain

Electrical Engineer

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Madinah City, Madinah Region, Saudi Arabia

Valid Driving License till 14/01/2028

Transferable IQAMA



Professional Experience

Facilities ,Operation& Maintenance Engineer (Electrical) - SEC Approved

DAR International Engineering & Consultancy

Client: Saudi Electricity Company

Project: SRMU & MRMU Installation | Madinah Region

10th January 2024 – Present

- Prepared and interpreted Single Line Diagrams (SLDs) for medium- and high-voltage electrical systems.
- Executed installation, testing, and maintenance of overhead medium-voltage networks, including Load Break Switches (LBS) and Auto Reclosers at 13.8 kV and 33 kV.
- Worked on underground distribution systems, including SRMU and MRMU (3-way and 4-way configurations).
- Involved in construction, erection, and maintenance of short, medium, and long transmission lines rated at 17.5 kV, 33 kV, 110 kV, and 220 kV.
- Performed testing, commissioning, and troubleshooting of protection relays, including:
 - Reactance Relay
 - Impedance Relay
 - Buchholz Relay
 - Translay Relay
 - Thermal Relay
- Worked on package substations, including installation, inspection, and operational checks.
- Installed and maintained distribution transformers rated at 500 kVA and 1000 kVA.
- Carried out new cable termination and jointing for 3-core cables of sizes 185, 240, 300, 400, and 500 mm².
- Worked on various types of circuit breakers, including ACB, VCB, OCB, and SF₆ breakers.
- Installed, tested, and maintained three-phase and single-phase motors.
- Handled installation and testing of Current Transformers (CTs) and Potential Transformers (PTs).
- Installed and inspected overhead line insulators, including pin type, suspension type, and D-shackle insulators.
- Worked on installation and maintenance of lightning arresters for overhead and substation equipment.
- Installed and maintained inverters and converters used in electrical power systems.

Profile Summary

Results-driven and technically competent Electromechanical/Electrical Professional seeking to contribute to a progressive organization that offers a challenging work environment and long-term career growth. Committed to delivering high-quality results through strong technical expertise, disciplined execution, and a performance-based approach. Adept at working in complex projects, meeting tight deadlines, and continuously enhancing skills to support organizational objectives and operational excellence.

Education

Bachelor of Engineering: Electrical Engineering (2011)

Quaid-e-Awam University of Engineering Science & Technology, Nawabshah.

Languages

- English
- Urdu
- Arabic

Maintenance Engineer (Mekkah, Jeddah)

Al-Futtaim Group (U.A.E)

February, 2022 to March 2023

- Installed substation equipment, including MRMU, MV switchgear, transformers, and MDBs, in accordance with approved shop drawings and project specifications.
- Executed installation of electrical distribution systems, including MDBs, SMDBs, branch panels, isolators, and associated equipment.
- Carried out MV and LV cable laying, glanding, termination, and dressing as per approved drawings and standards.
- Conducted inspection of executed works jointly with internal QA/QC teams and supervising consultants, strictly following Inspection and Test Plans (ITPs).
- Executed all site activities in compliance with approved Method Statements (MS), latest IFC drawings, and project specifications.
- Coordinated with relevant stakeholders to close NCRs, Site Deficiency Reports (SDRs), and non-conformities in a timely manner to avoid project delays.
- Gained strong experience in installation of electrical systems, including Lighting (EIB), Power, Fire Alarm, Low Current Systems, Building Management System (BMS), and Guest Room Management System (GRMS).
- Installed various types of electrical conduits, including PVC, EMT, FMT, and RGS, as per approved layouts.
- Installed and commissioned electrical accessories and devices, ensuring compliance with safety and quality standards.
- Performed troubleshooting and fault rectification for electrical circuits and systems.
- Implemented Project Quality Plans, ITPs, inspection checklists, and ensured compliance with project specifications, drawings, and construction standards.
- Prepared, reviewed, and obtained approval for Inspection & Test Plans (ITPs) and Method Statements (MS) in line with project requirements and international codes.
- Prepared and obtained approval for Material Inspection Requests (MIRs) and conducted Material Site Acceptance Tests (SATs) as per project specifications.
- Conducted continuity tests and insulation resistance (IR) tests for cables and wiring, and guided team members on proper testing techniques.
- Prepared and maintained As-Built / Redline drawings reflecting site modifications and actual installations.
- Monitored daily site activities in coordination with area supervisors, ensuring quality compliance and safety risk analysis during execution.

Trainings and Certifications

- Short Course in Matrix Laboratory (MatLab).
- Short Course in Microsoft Office.
- A sound knowledge of Computer Software & Hardware Installation.
- Short course in Programming logic control (PLC).

Skills

- Medium & High Voltage Systems (11 kV, 13.8 kV, 17.5 kV, 33 kV, 110 kV, 220 kV)
- Single Line Diagram (SLD) Interpretation
- Overhead & Underground Electrical Distribution Networks
- MV Switchgear, LBS, Auto Reclosers, SRMU & MRMU
- Package Substations Installation & Commissioning
- Distribution Transformers (500 kVA & 1000 kVA)
- Circuit Breakers: ACB, VCB, OCB & SF₆
- Protection Relay Testing & Commissioning
- (Reactance, Impedance, Mho, Buchholz, Translay, Thermal, Differential)
- CT & PT Installation, Testing & Verification
- Continuity Testing & Insulation Resistance (IR) Testing
- MV & LV Cable Termination, Glanding & Jointing
- Testing & Commissioning of Electrical Systems
- Inspection & Test Plans (ITPs)
- Method Statements (MS) Preparation & Implementation
- Material Inspection Requests (MIRs) & Site Acceptance Tests (SATs)
- NCR, SDR & Snag Closure Coordination
- As-Built / Redline Drawings Preparation
- Compliance with Project Specifications & International Standards

Field Engineer

MITSUBISHI ELECTRIC PAKISTAN

January, 2015 to Jan, 2022

Electromechanical, Elevator & Escalator Experience

- Possess strong knowledge and hands-on experience in electromechanical systems, including electrical and mechanical integration.
- Performed operation and maintenance (O&M) of elevators and escalators for commercial and healthcare facilities in Karachi.
- Successfully executed multiple high-value projects, completing works within schedule and approved budgets.

Key Projects Executed:

- Dolmen Towers A & B – Mega project involving 24 high-speed elevators (4 m/sec, up to 37 floors).
 - Dolmen Mall Clifton – Installation and maintenance of multiple elevator models, escalators, and moving walks.
 - Aga Khan Hospital
 - Children Hospital, New Karachi
 - Ibrahim Ali Bhai Project – Shahrah-e-Faisal
 - State Life Building
 - Performed testing and commissioning of high-speed elevators, ensuring compliance with safety and performance standards.
 - Delivered preventive maintenance programs to enhance system reliability and ensure client satisfaction.
 - Responded to urgent breakdowns and client issues, ensuring minimal downtime and quick fault resolution.
 - Worked on overhead and underground electrical distribution systems.
 - Hands-on experience with CTs, PTs, switchgear, protection relays, transformers, and induction motors.
 - Worked on protection relays, including Mho, Impedance, and Buchholz relays.
 - Experience with 11 kV and 33 kV primary distribution systems and secondary distribution (440/220 V).
 - Worked on Mitsubishi elevator systems, including emergency landing operations.
 - Performed RST & UVW motor wiring, including control and power circuits.
 - Worked on AC and DC converters, fuses, relays, circuit breakers, and contactors.
 - Installed and maintained three-phase motors and motor control systems.
- Elevator Systems – Installation & Maintenance
- Worked on MRL and MR elevator systems, including mechanical and electrical components.
 - Installed and maintained speed governors, motor sheaves, car guide rails, and counterweight rails.
 - Worked on car doors and landing doors, including alignment and safety adjustments.
 - Maintained door systems including hanger rollers, eccentric rollers, interlock rollers, and door weights.

Strengths

- Flexibility and quick to embrace new concepts
- Ability to build positive working relationships
- High integrity and spirit of teamwork
- Self-driven, optimistic and hardworking
- Excellent interpersonal and reflection skills
- Strong Work Ethics
- Humble & Honest

Reference

Adequate References May Be Furnished If Desired!

- Worked on elevator sensors and safety devices, including Pana40 sensors, OLT, and CLT.
- Installed and tested Earthquake Emergency Devices and fire emergency systems.
- Worked on TSD and PAD switches.
- Ensured compliance with elevator safety systems, including:
 - Speed governor safety
 - Landing and car door safety
 - Emergency exit safety
 - Pit switch safety
 - Car run stop safety
- Installed and maintained car fans and car emergency lighting systems.

