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SENIOR ELECTRICAL ENGINEER

Professional Summary

Senior Electrical Engineer with ten years of experience specializing in MEP supervision and quality assurance in High scale projects supported by multiple organizations like World Bank & Kuwaiti Sudanese Holding, MODON RBF. Successfully Established the MEP Supervision Department by preparing essential engineering documents while managing compliance inspections to ensure quality standards were met across all project phases and implementing testing and commissioning plans for project final handover. Demonstrated leadership by managing a team of QA/QC inspectors and implementing training programs that improved operational efficiency.

Experience

SENIOR ELECTRICAL ENGINEER / Electrical System Commissioner

HAMZA MOHAMMED ALDERI

JADDAH, KSA

2025-2026

- Led the execution, testing & commission and final handover of 40 ready based factories spanning in 36,000 Square meter at MODON industrial city, in compliance with client and consultant specification.
- Steered electrical systems' compliance with IEC, IEEE standards, ensured implementation of quality through detailed upfront planning according to project timelines.
- Supervised on-site installation of electrical systems, adhering to approved designs and safety protocols, resulting in 0 safety incidents.
- Managed 17 subcontractors, ensuring quality control, minimizing rework and avoiding additional cost.
- Conducted inspections, testing, and commissioning of electrical systems, delivering detailed reports for client approval across 250+ WIR inspected and approved.
- Ensured material quality through series of approvals starting with prequalification approval through material approval request and material inspection request.
- Implemented Inspection and Testing Plans (ITPs) for 6 key systems including ACB, Earthing, 630mm MV & LV cables, and 2 MW standby generators, HVAC VRF System and Firefighting system.
- Acted as a technical liaison between project consultants, company management, and client representative.

SENIOR ELECTRICAL ENGINEER

TAQNIA ALMANARA

2023 – 2025

- Played a pivotal role in the successful planning, execution, and delivery of a high-profile infrastructure mega project in Saudi Arabia. The project required a combination of technical expertise, leadership, and collaboration across multidisciplinary teams.
- Led the electrical design process, ensuring compliance with international standards (IEC, IEEE) and local regulatory codes.
- Supervised on-site installation of electrical systems, ensuring work was completed according to the approved designs, schedules, and safety protocols.
- Managed contractors and subcontractors to maintain quality control, minimize rework, and adhere to project timelines.
- Conducted regular inspections, testing, and commissioning of electrical systems, producing detailed reports for client approval.

MEP MANAGER / Quality Assurance / Electrical Commissioner
MEP House Electromechanical Solutions , *Khartoum, Sudan*

2018 - 2023

- Developed detailed MEP engineering documents, including material approvals and shop drawings, accelerating project approvals and reducing project delays by 10 days per project.
- Implemented a rigorous QA/QC process for MEP supervision, reducing rework by 25% and ensuring compliance with international standards; process is now adopted by 3 other departments.
- Supervised the electrical installation of more than 15 residential and commercial projects, ensuring adherence to safety regulations and project specifications, and delivering projects on time and within budget.
- Led safety audits focusing specifically on MEP installations ensuring zero incidents reported during implementation phases despite working with complex high-voltage equipment crucial for ongoing construction projects valued at over \$5 million collectively.
- Attendance of all clients meetings on behalf of the company for all issues related to progress.
- Engineering review and approvals, Monitor and report on the main and specialist sub-contractor's progress against the contract program.
- Monitored and supervised the testing & commissioning operations led by subcontractor to ensure it` compatibility with IEC and IEEE in order to achieve customer satisfaction.

QA/QC Engineer / Electrical Inspector

2017 - 2018

Derby Group, *Dubai, United Arab Emirates*

- Prepare material submittals, ITP, Inspection report, Method statement and procedures.
- Arrange meetings between the contractor and concerned departments to resolve interfacing problems during construction.
- Guided the professional development of lower-level quality personnel, fostering a culture of continuous improvement and ensuring adherence to the highest industry standards, personally audited at least 6 critical areas for improvement.

Electrical Engineer

2016 - 2017

Sigma Elevators & Escalators *Khartoum, Sudan*

- Executed configuration on elevators using PLC programming and parameters entry, shrinking programming errors by 17% and improving installation efficiency by 8% on 6+ projects.
- Conduct required checks and reviews of site installations including site visits.

Electrical Engineer

2015

TOLAN Industrial Company *Khartoum, Sudan*

Modernized component sizing of panels using BSI/IEC codes, leading to a 7% decrease in material waste during panel assembly and solidifying status as subject matter expert.

Education

Sudan University of Science & Technology

2014

Bachelor Degree in Electrical Engineering – Khartoum, Sudan

Certifications

- **PMI-PMP Certification:** In progress [Enrolled]
- **Saudi Council of Engineers:** Active member 2026
- **Health & Safety Management:** Institution of Occupational Safety and Health (IOSH) 2016
- **International English Language Test:** British Council 2017
- **AUTOCAD Design Professional** 2015
- **CCTV Design Professional** 2015

Languages

- Arabic | Native proficiency (speaking, reading, writing)
- English | Professional working proficiency

Availability

- Available for relocation within Saudi Arabia | Valid IGAMA and driving license

Methodologies

Earned Value Management (EVM): Proficient in PV/EV/AC tracking and performance evaluation

MEP Engineering: Electrical Installation Standards Compliance, MEP Documentation Preparation Techniques, Safety Audit Processes, AUTOCAD, ETAP, DIALUX

Project Management: Project Planning, Risk Management, Resource Allocation, Schedule Management, Quality Assurance Protocols, MS EXCEL

Codes & Standards: NEC (National Electrical Code), IEC (International Electro technical Commission) Standards.

Software Skills

Primavera P6: Expert in schedule development, critical path analysis, and delay studies

Microsoft Office: Advanced Excel skills in automation, EVM, and data visualization

AutoCAD: 2D/3D drafting and site plan development.