

MOHAMED AL-AZAB

Electrical Project Engineer

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Summary

Highly accomplished and certified Electrical Engineer with over 8 years of extensive experience in construction and maintenance, specializing in Medium Voltage (MV), Low Voltage (LV), SCADA, PLC, Low Current, MCC, and BMS systems. Possessing a Bachelor's Degree in Electrical Engineering and certified as a general electrical engineer by the Saudi Council of Engineers, the Federation of Arab Engineers, and the Egyptian Engineers Syndicate. I bring a robust understanding of international procedures across all project phases, including engineering, bidding, procurement, and construction requirements, coupled with up-to-date best practices. A certified PMP professional with training in ISO 9001, ISO 45001, and ISO 14001. Proven ability to lead capital projects, ensuring compliance with project objectives, contractual requirements (schedule, cost, HSE), and company standards. Flexible to work in multinational teams and mobilize to different locations, including remote areas.

Key Skills

- **Project Management:** PMP Certified, Time Planning & Scheduling, Cost Estimation & Profit Margin Calculation, Procurement Management, Contract Negotiation, Quality Assurance and Control, Progress Reporting (Daily, Weekly, Monthly).
- **Electrical Systems Expertise:** Medium Voltage (13.8KV RMU, Transformers), Low Voltage (4.16KV Switch Gear, Transformers, Distribution Panels), SCADA Systems, PLC, MCC, BMS, HVAC, Turbine Pumps (4.16 KV), Soft Starters (4.16 KV), Fire Alarm (Addressable, FM200), Access Control, CCTV & Data Systems, UPS Systems, Earthing System & Lightning Protection, Lighting & Power Systems (KNX control), Main Feeder Cables & Cable Tray Extension.
- **Maintenance & Operations:** Preventive and Corrective Maintenance Plans, Electromechanical Maintenance & Operations, Troubleshooting Main Power Systems (Switchgear, Transformers, Generators), SCADA System Maintenance, Quality Control.
- **Technical & Software:** AutoCAD, Microsoft Office, Primavera, MATLAB, Detailed Calculations (Manufacturing, Construction, Installation Standards & Specs), Design new electrical power applications.
- **Soft Skills:** Exceptional Communication Skills, Interpersonal Skills, Organizational Skills, Complex Problem-Solving, Critical Thinking, Active Learning, Innovative Thinking.

Professional Experience

Senior Electrical Engineer | Abed Ali Al Habashi Contracting Company (2022 – Present)

- **Rainwater Drainage Station, Al-Ahsa:**
 - Spearheaded the submission and approval process for comprehensive electrical drawings including SLD, LV drawings, current drawings, MV/LV transformers, Switch Gear (4.16 KV, 1.5 KA), Soft Starter (4.16 KV), Turbine Pumps (4.16 KV), distribution panels, ICP, SCADA, Addressable Fire Alarm, and FM200 fire fighting systems.
 - Managed inventory, supplier approvals, and material requests, ensuring adherence to project timelines and budget.
 - Provided material samples and conducted rigorous testing of project boards to ensure quality and compliance.
 - Developed and managed detailed project time plans, distributing responsibilities, creating purchase orders, and ensuring timely material supply.

- Coordinated effectively with other project departments to optimize time utilization.
- Managed inspection requests, work receipts, and their inclusion in payment extracts for timely project dues disbursement.
- Submitted comprehensive daily, weekly, and monthly progress reports to project management.
- Successfully completed testing and final commissioning of all electrical systems at the pump station.
- Oversaw initial acceptance works and was responsible for operating and maintaining the station for a full year until final delivery.
- **Installation of 8 Advertising Screens for Buqayq Municipality:**
 - Managed the installation of screen cells in an (8*4) matrix and modified power boards to align with power sources.
 - Executed power supply and control cable connections, including operation, testing, and manual control.
 - Successfully linked and synchronized control panels and implemented the remote control server for centralized management.
- **Eastern Province Bus Shelters:**
 - Performed testing and commissioning for CCTV and advertising screen systems.
 - Installed linked servers for both CCTV and screen/advertising systems.

Manager of Electromechanical Maintenance Department | Al-Emar Gate Company (Rabigh STP Plant) (2021 – 2022)

- Developed and implemented preventive and corrective maintenance plans for the electromechanical department.
- Managed operational plans for electromechanical maintenance teams and oversaw the supply of spare parts.
- Responsible for enhancing the efficiency and capacity of the station.
- Implemented electrical hazard safety plans at the station.
- Prepared daily, weekly, and monthly station reports.

Site Electrical Engineer for Maintenance, Improvement and Operation of Rainwater and Torrential Drainage Networks | Al-Yamamah Company (Jeddah) (2018 – 2021)

- Reviewed shop drawings, developed implementation timelines, determined material and labor requirements, and calculated costs and profit margins for numerous pump stations (e.g., AL-ZAHARA, AL-ZOHOR, SARI crossing MADINAH.st) focusing on electrical, SCADA, and classic control systems.
- Approved bills of quantities and technical specifications for site implementation.
- Approved plans and budgets for raw material supply.
- Submitted daily, weekly, and monthly progress reports to project management.
- Managed troubleshooting and maintenance of main power systems (switchgear, transformers, generators) for AL-ZAHRA pump station.
- Responsible for troubleshooting and maintaining the SCADA system for AL-ZAHRA pump station.
- Responsible for operating and maintaining CCTV pipe robots.

Site Electrical Engineer | Faculty of FAKEH for Medical Science (Samman Group) (2016 – 2017)

- Reviewed shop drawings, developed implementation timelines, and calculated project costs and expected profit margins.
- Approved bills of quantities, technical specifications, and budgets for raw material supply.
- Submitted daily, weekly, and monthly progress reports.
- Successfully completed testing and final commissioning of all electrical systems in the building.

- Managed the installation of various systems including: Addressable Fire Alarm, Conventional FM200 and NOVIC, RMU, Power Transformer, MDB panels (with testing and commissioning), DP panels (with termination and numbering), Access Control System, CCTV and Data Systems, HVAC including BMS, Chillers, AHU, DDC panels, sensors, MCC panels, VAV controllers, and thermostats (with testing and commission).
- Oversaw the implementation of earthing systems and lightning protection.
- Managed the installation of lighting and power systems with integrated KNX control.
- Executed and extended main feeder cables and cable trays, and installed UPS systems for the entire building.

Education

Bachelor Degree of Electrical Engineering | General Grade: Very Good | MET Mansoura-Egypt (09/2011 – 06/2016)

Certifications & Courses

- PMP (Project Management Professional)
- ISO 9001
- ISO 45001 & 14001 Training
- Electrical Wiring and Loads Course
- Microcontroller Course from Microchip

Languages

- Arabic (Native Language)
- English, USA (Excellent)
- French, FRANCE (Beginner)