

MOSAB ABDALLAH AGAB

SENIOR ELECTRICAL ENGINEER

SCE MEMBERSHIP: PROFESSIONAL

Riyadh, Saudi Arabia | +966 531244347 | Mosab191@gmail.com

Professional Summary

Senior Electrical Engineer with over 10 years of experience in testing & commissioning, operation and maintenance of medium and low voltage systems, with solid knowledge of fire alarm, firefighting and life safety systems. Proven expertise in managing electrical projects involving transformers, switchgears, RMUs, and distribution networks (MV & LV), ensuring strict adherence to safety standards and delivering technical support across design, operation, and maintenance phases. Skilled in protection relays and predictive maintenance using VLF and IR testing methods. Additionally, experienced in designing and implementing Liquefied Petroleum Gas (LPG) systems with control panels, sensors, and detectors, fully integrated with fire alarm and fire suppression systems, and compliant with GASCO, NFPA, and life safety codes. Known for strong problem-solving, attention to detail, and effective leadership in cross-functional teams.

Key Skills

- Medium, Low and Extra Low Voltage (MV / LV / ELV) Power Networks
- Overhead & Underground Distribution Systems
- Power Distribution, Switchgear, Transformers, RMUs, Mini Pillar and Meters
- Preventive & Corrective Maintenance, Testing & Commissioning and Troubleshooting
- LPG Safety Systems, Gas Detection Design, Installation and Operation
- Fire Alarm, Fire Fighting & Fire Suppression Systems
- Project Management, Site Supervision and Technical Coordination
- Safety Standards Compliance, NFPA Codes and (QA/QC)
- PLC Systems, Automation and Integration (Fire Alarm, Gas, BMS)
- AutoCAD Shop & As-Built Drawings and Microsoft Office
- Team Leadership, Communication and Technical Reporting

Professional Experience

Project Manager – Imdad Gas Trading & Contracting Co. | Riyadh, Saudi Arabia

Dec 2021 – Dec 2025

- Lead and manage LPG network projects from engineering design through commissioning and final handover in compliance with approved standards.
- Design, integrate, and program gas safety systems including control panels, gas sensors, detectors, and emergency push buttons.
- Coordinate integration of gas safety systems with Fire Alarm, BMS, and Fire Suppression systems to ensure safe emergency response.
- Prepare and review shop and as-built drawings using AutoCAD and follow up on approvals.
- Coordinate with clients and site teams to ensure schedule adherence and quality execution.
- Manage operation and preventive maintenance contracts to enhance system reliability.
- Supervise pre-commissioning, testing, and final handover to ensure full system readiness.
- Prepare technical reports, official correspondence, and meeting minutes.
- Improve internal procedures, maintenance efficiency, and overall operational performance.

Project Engineer – Imdad Gas Trading & Contracting Co. | Riyadh, Saudi Arabia

Dec 2017 - Dec 2021

- Managed day-to-day site operations and team performance.
- Coordinate with contractors to integrate LPG panels with fire alarm systems and BMS.
- Communicated with clients to align project progress with specifications.
- Estimated material quantities and tracked additional work orders.
- Supervised installation and maintenance teams to ensure quality execution.
- Prepared as-built drawings and updated technical documentation.

**Electrical Engineer – Factory of Development diagrams for Electrical Distribution Panels Company
| Riyadh, Saudi Arabia** **Apr 2017 – Dec 2017**

- Prepared and reviewed MDB & SMDB panels in line with project requirements.
- Performed load calculations and power distribution design for various facilities.
- Designed, assembled and tested electrical panels to ensure safety and reliability.
- Prepared SLDs, panel schedules, shop drawings and BOQs.
- Coordinated with architects, clients, and end users on layouts and requirements.
- Ensured compliance with SEC regulations, safety standards and quality requirements.

Operation and Maintenance Engineer – Sudanese Electricity Distribution Co. | Sudan

Jul 2015 – Mar 2017

- Led operation and maintenance of overhead and underground networks for MV / LV systems.
- Supervise replacement and maintenance of Ring Main Units (RMUs) in substations to ensure operational reliability.
- Oversee maintenance and optimization of low voltage systems, including meters, distribution panels, and network reinforcement
- Supervised the replacement of aged underground cables and the enhancement of substation interconnection protection relays, using PD, VLF, and IR testing methods
- Maintained and operated various network components such as auto-reclosers, Load Break Switches (LBS), and sectionalizers to ensure grid stability and fault isolation.
- Supervised corrective maintenance and emergency repair activities during outages.
- Conducted periodic inspections and troubleshooting of cables, transformers, and overhead lines.
- Managed preventive and periodic maintenance programs, including insulation tests, thermal imaging, and diagnostic inspections to reduce unplanned outages.
- Ensured all maintenance work adhered to safety standards and operational procedures.
- Achieved measurable improvements in fault response time and system reliability.

Education

**Bachelor of Science (Honors) in Electrical Engineering – Control Systems Omdurman
Islamic University – June 2015**

Training Courses & Certifications

- Modern Power System Protection – Exemplar Center for Engineering Training (Jan 2026)
- IOSH managing safely – Mr. Safety for Training and Consultation (Nov 2025)
- Electrical Installations – Abdelbary Center for engineering training (May 2017)
- Programmable Logic Controller (PLC) – Abdelbary Center for engineering training (Apr 2017)
- Fire Fighting and Fire alarm Systems – Abdelbary Center for engineering training (Apr 2017)
- AutoCAD (2D & 3D) – Abdelbary Center for engineering training (Apr 2017)

Certified Webinars & Workshops

- Cable Connections and Terminations – Saudi Council of Engineers (Dec 2025)
- Emergency Lighting & Central Battery Systems (CBS) – Saudi Council of Engineers (Dec 2025)
- Occupational Health and Safety – Saudi Council of Engineers (Dec 2025)
- Harmonics in Electrical Power System - Saudi Council of Engineers (Nov 2025)
- LV Motor Starting & Control Solutions - Saudi Council of Engineers (Aug 2025)
- Fundamentals of BMS Systems in Hospitality Sectors – Saudi Council of Engineers (Oct 2024)

Personal Information

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| - Saudi Council of Engineers Membership: Professional | - Driving License: Valid |
| - Available for immediate joining – transferable Iqama | - Nationality: Sudanese |

Languages

Arabic: Native

English: Very good