

Musadg Zakaria Abdalrahim

ELECTRICAL ENGINEER

Kingdom of Saudi Arabia, Riyadh | Musadg1990@gmail.com | +966-569127234- +966-595389450

SUMMARY

An Electrical Engineer with 8 years of experience in construction projects and consultancy work under the Saudi Electricity Company. Skilled in electrical shop drawings, inspections, system maintenance, teaching assistance and supervision of low and medium voltage works. Holds a Master's degree in Electrical Engineering and is a registered member of the Saudi Council of Engineers **professional Experience**

ELECTRICAL PROJECT ENGINEER

Saif AL-Nahdah EST., Riyadh

MAY 2025 - CURRENT

- Supervised low and medium voltage electrical works on construction sites, ensuring compliance with technical specifications and safety standards.
- Monitored cable laying operations (underground and overhead), ensuring proper routing and installation. Participated in the installation of electrical transformers, coordinating with on-site teams and suppliers to ensure efficient execution.
- Oversaw the installation of small electrical poles and their integration into the main electrical network.
- Supervised disconnection and reconnection of electrical meters, following safety procedures and minimizing service interruptions.
- Prepared daily and weekly technical reports documenting work progress, site observations, and any issues encountered.
- Collaborated with other engineering disciplines to ensure electrical systems were integrated smoothly within the overall project.

ELECTRICAL PROJECT ENGINEER

SC Contracting Company, Riyadh

September 2023 - MAY 2025

- Prepared and submitted electrical shop drawings, material submittals, and as-built drawings (AutoCAD & Revit).
- Led the implementation of electrical projects, including the installation of smart ring main units in collaboration with CCS Company (China Communication Service).
- Managed finishing construction work to ensure project completion within specifications and timelines.
- Served in the technical office, handling technical documentation, reports, and project coordination.
- Took on the role of Projects Manager, overseeing multiple projects simultaneously and ensuring smooth execution from initiation to completion.
- Reviewed designs, monitored site activities, and ensured compliance with standards and project schedules.
- Coordinated with consultants, subcontractors, and suppliers; attended inspections and MEP testing & commissioning.
- Supported tender reviews, prepared clarifications, and participated in technical and financial negotiation.

ELECTRICAL MAINTENANCE & OPERATION ENGINEER

Eastern Construction Company, Ministry of National Guard, Riyadh

Jan 2022 - July 2023

- In charge HEAD of electricity maintenance for 5000 villas, more than 60 schools, street lights, 4 recreational cultural centers, and more than 36 masjids.
- In charge HEAD of electricity maintenance for the 12 Military Police Battalion.
- Routinely inspecting electrical systems such as wiring, fixtures, and appliances.
- Identifying faults or hazards.
- Troubleshooting system failures.
- Reviewing blueprints to understand wiring placement.
- Testing of electrical systems with voltmeters, and ohmmeters.
- Conducting maintenance repairs on old or faulty fixtures.
- Responding to fault requests.
- Providing suggestions for equipment replacement.
- Writing electrical maintenance reports.
- Installing new electrical appliances in the building.
- Adhering to safety and performance standards.

TEACHER ASSISTANCE, Khartoum

OCT 2017 - Dec 2021

The TA and the instructor share joint responsibility for ensuring that each understands the division of work responsibilities.

TA duties include the following:

facilitate a discussion section or tutorial; hold weekly office hours; grade homework, programming assignments, exams, or projects; keep records; distribute and copy reading materials; prepare answer keys or supplementary notes; and act as the course webmaster.

- TAs may be required to attend the instructor's lecture regularly.

ELECTRICAL SITE ENGINEER, Khartoum

September 2017- September 2018

- Participated in site supervision and execution of electrical works on infrastructure projects.
- Reviewed technical drawings and ensured compliance with safety and quality standards. Collaborated with project teams to coordinate daily operations and reporting.

EDUCATION

Master of Technology (M. TECH)

Jawaharlal Nehru Technological University, India

MAR 2022

Bachelor of Electrical Engineering

Bahri University, Sudan

July 2017

COURSES

- Low Voltage Switchgears Course
- Electrical Installations Design for Buildings & Facilities Course

- Programmable Logic Controller (PLC).
- Basics of computer Application.
- Building Management Systems (CCTV Surveillance Systems, Fire Alarm Panel& Biometric Access control System).
- Electrical Designing Switchgear & Protection
- AUTOCAD-2D.

SKILLS

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|--------------------|-------------------------|-------------------------------|
| • ETAP | • Power World Simulator | • NEPLAN |
| • Microsoft Office | • MATLAB | • PVSYST |
| • Revit Mep | • | |
| • AutoCAD | | • Valid Saudi Driving License |

ADDITIONAL INFORMATION

- **Languages:**
- **Arabic - Native**
- **English - Intermediate**
- **Memberships:**
- **Member of the Saudi Council of Engineers (SCE) – Membership No. 966698**