

# Musadg Zakaria Abdalrahim

## ELECTRICAL ENGINEER

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

---

### SUMMARY

---

Electrical Engineer with 8 years of experience in construction, maintenance. Skilled in MV/LV electrical systems, smart RMU installation, cable routing, transformers installation, inspections, testing & commissioning, shop drawings, and site supervision. Strong background in maintenance operations for large residential and governmental facilities. Holds an M.Tech in Electrical Engineering and is a registered member of the Saudi Council of Engineers.

---

### ELECTRICAL ENGINEER

SC Contracting Company, Riyadh

September 2023 - Current

- Prepared electrical shop drawings, material submittals, and as-built drawings (AutoCAD & Revit).
- Led installation of **smart Ring Main Units (RMU)** in collaboration with **CCS – China Communication Service**.
- Managed finishing electrical works to ensure delivery within time and specifications.
- Worked in the technical office managing documentation, reports, and coordination.
- Served as **Project Manager**, supervising multiple projects simultaneously.
- Reviewed designs, monitored site execution, and ensured compliance with project schedules.
- Coordinated with consultants, subcontractors, and suppliers for inspections.

### ELECTRICAL MAINTENANCE & OPERATION ENGINEER

Eastern Construction Company, Ministry of National Guard, Riyadh

Jan 2022 - July 2023

- Head of electrical maintenance for **5000 villas, 60+ schools, 4 recreational centers, 36 mosques**, and the **12 Military Police Battalion**.
- Conducted routine inspection of electrical systems (wiring, panels, appliances).
- Diagnosed electrical faults, system failures, and hazards.
- Reviewed blueprints to verify wiring layout and system configuration.
- Performed maintenance using professional testing equipment (voltmeters, ohmmeters).
- Responded to emergency fault reports and provided repair solutions.
- Recommended equipment upgrades and replacements.
- Prepared electrical maintenance reports and supervised installation of new equipment.
- Ensured adherence to safety procedures and performance standards.

## TEACHER ASSISTANCE, Khartoum

OCT 2017 - Dec 2021

- Assisted instructors in lectures, tutorials, and discussions.
- Prepared answer keys, graded assignments, exams, and projects.
- Maintained academic records and provided student support.
- Handled course materials, documentation, and website updates.
- Attended lectures regularly and provided academic support to students.

## ELECTRICAL SITE ENGINEER, Khartoum

September 2017- September 2018

- Supervised and executed electrical works for infrastructure projects.
- Reviewed drawings to ensure compliance with safety and quality standards.
- Coordinated daily site operations, inspections, and reporting with project teams.

## EDUCATION

---

### Master of Technology (M. TECH)

Jawaherlal Nehru Technological University, India

MAR 2022

### Bachelor of Electrical Engineering

Bahri University, Sudan

July 2017

## COURSES & TRAINING

---

- Low Voltage Switchgears
- Electrical Installations for Buildings & Facilities
- Programmable Logic Controller (PLC)
- Computer Applications Basics
- Building Management Systems (CCTV, Fire Alarm, Access Control)
- Electrical Switchgear Design & Protection
- AutoCAD 2D.

## TECHNICAL SKILLS

---

- **Software:** AutoCAD, Revit MEP, ETAP, MATLAB, NEPLAN, PowerWorld, PVSYST

- **Electrical Skills:** MV/LV systems, RMU installation, cable routing, transformers, fault finding, load calculation, MEP coordination, testing & commissioning
- **Other:** Microsoft Office, Technical Reporting
- Valid Saudi Driving License

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