Adham Emadeldin

Electrical Engineer — Design & Tendering · Water & Wastewater Treatment Plants

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SUMMARY

Electrical engineer with six years of experience across site engineering, maintenance management and electrical tendering, specialized in electrical design and tendering for water, wastewater and sewage treatment plants. Skilled in load calculations, LV distribution, single-line diagrams, cable sizing and BOQ preparation, with three years managing a maintenance department.

EXPERIENCE

Tendering Engineer
Mar 2025 – Aug 2026

The Arab Contractors

- Prepared and reviewed BOQs, quantity take-offs and price analyses for the electrical works of water and wastewater treatment projects.
- Reviewed technical specifications and prepared technical and financial proposals.
- Produced the electrical design for projects that required it: transformers, generators, lighting, cables, control and instrumentation, earthing and lightning protection, and electrical panels.

Maintenance Department Manager
Jan 2022 – Feb 2025

Specialized Engineering Contracting Company (SECC)

- Led the maintenance department, managing a team of 10–12 across multiple sites in electrical and mechanical maintenance.
- Planned and ran preventive, periodic and emergency maintenance programs.
- Reduced maintenance spending through budget control and supplier coordination; the savings were recognized by the company with a reward.
- Analyzed maintenance and operational data in Excel to report on cost and performance and find improvements.
- Led equipment redesign and reengineering to improve reliability.

Maintenance Electrical Engineer
Apr 2021 – Dec 2021

Specialized Engineering Contracting Company (SECC)

- Performed electrical and electronic troubleshooting and preventive and emergency maintenance on machinery and equipment.

Site Electrical Engineer
Mar 2020 – Mar 2021

Samcrete Engineers & Contractors

- Supervised installation of low-voltage systems, electrical panels and power distribution.
- Supervised BMS, fire alarm, earthing and UPS installations and coordinated subcontractors on site.

SKILLS

Electrical design	Load calculations · LV distribution · Single-line diagrams · Cable sizing & schedules · Lighting design · Earthing & lightning protection · Transformer & generator sizing · MCCs · Pump & motor power supply · Control systems & instrumentation
Tendering & estimating	BOQ preparation & review · Quantity take-offs · Price analysis · Technical specifications review · Technical & financial proposals
Maintenance	Preventive, periodic & emergency maintenance · Troubleshooting · Maintenance planning · Budget optimization · Spare parts & supplier coordination · Team leadership
Tools	AutoCAD (Advanced) · Microsoft Excel (Advanced) · Word (Advanced) · PowerPoint (Intermediate) · Self-taught: Power BI, SQL, Python

EDUCATION & TEACHING

Bachelor of Electrical Engineering — Marg High Institute for Engineering and Modern Technology (MIE) May 2018

Delivered classes on Electrical Power Distribution Fundamentals.

LANGUAGES & PERSONAL

Arabic (Native) · English (B2, Upper Intermediate) · French (A2) | Military service: Completed