

Electrical Engineer – Technical Office (Tender & Procurement)

Holds a B. Sc. in Electrical Power & Machines Engineering and has over 6 years of experience in electrical design, cost estimation and tendering across infrastructure, government, and commercial projects. Skilled in preparing BOQs, analyzing tender documents, evaluating vendor offers and coordinating with procurement and technical teams. Strong project management skills and a proven track record in reducing project costs and streamlining workflows.

PERSONAL DATA

Nationality : Egyptian
Gender : Male
Marital Status : Married
Residence : Mokattam, Cairo

EDUCATION

: B. Sc. in Electrical Power & Machines Engineering, Helwan University, 2019

LANGUAGES

Arabic : Native Language
English : Very Good
Spanish : Basics

COMPUTER SKILLS

: Windows, MS Office (Word, Excel), Internet
: AutoCAD Electrical
: Revit MEP: BIM for Electrical Systems
: BIM 360: Basic familiarity, collaboration and model sharing
: Navisworks: Clash detection, 4D simulation
: Dialux Evo: Lighting Simulation & Design
: ETAP: Power system modeling, load flow, short circuit analysis
: Ecodial INT: Low Voltage Load & Protection Calculation

TRAINING COURSES AND CERTIFICATIONS

- : Electrical BIM Diploma, Kaitech Training Center Cairo (since Aug. 2025):
 - Comprehensive diploma focused on Building Information Modeling (BIM) for electrical engineers, using Revit MEP, Navisworks, and AutoCAD.
 - Training includes full-cycle modeling of electrical systems in BIM: lighting, power, panel schedules, cable trays, and conduit routing.
 - Emphasis on interdisciplinary coordination: working with architectural,

- structural, HVAC, plumbing, and fire protection models to detect and resolve clashes.
- Includes hands-on projects simulating real-world building scenarios: from LOD 100 to LOD 400, ensuring full compliance with BIM execution plans.
- Learning outcomes include:
 - Creation of detailed electrical models with proper BIM family parameters.
 - Performing quantity take-offs directly from Revit models.
 - Clash detection and resolution in Navisworks.
 - Coordinated shop drawings and 3D visualization.
 - Exporting IFCs and generating sheets for construction documentation.
- : CS50 programming C course, Online Udacity (Jun./Jul. 2022).
- : Industrial PLC Application Training Program, Training Center of Jelecom Company - Ain Shams University (from Jan. till Mar. 2019):
 - Training on PLC devices of Siemens (S7-200, S7-300 & AC Drive MICROMASTER 420).
 - Knowledge of hardware connection & Software programming of PLC.
 - It was a great route to get industry recognized qualification, focusing on technical knowledge, core skills, and work experience.
- : Power System Distribution Course, ISI Academy - Giza (from Jun. till Aug. 2018):
 - Final project: Full power distribution design for a mall & a hospital.
 - Practical applications using ETAP, AutoCAD, and Dialux.
- : Training in Electrical Power Sector / EGYPTIAN IRON & STEEL COMPANY - Helwan (Jul./Aug. 2017): Good practical knowledge of Cables, Power Transformer & M.V Cells.
- : Low Voltage Switchgear Course, Schneider Electric Lab - Faculty of Engineering at Helwan (Jan./Feb. 2017): Using Ecodial program in Calculation.

CHRONOLOGICAL EXPERIENCE RECORD

Dates	: From Mar. 2025 till now
Employer	: EMCOTECH for Specialized Contracting - Sheraton, Cairo
Job title	: Electrical Engineer – Technical Office (Tender & Procurement)
Job Description	: • Reviewed tender documents, project specifications, and electrical drawings to ensure compliance with client requirements. • Prepared Bills of Quantities (BOQ), material take-offs, and procurement schedules to support bidding and project execution. • Coordinated with suppliers and subcontractors to obtain competitive quotations and ensure technical compliance. • Conducted technical and commercial evaluations of vendor offers, ensuring cost-effective selections without compromising quality. • Negotiated with vendors to secure favorable terms and reduce procurement costs. • Prepared and submitted technical submittals, compliance sheets, and procurement documentation for consultant/owner approval. • Developed value engineering alternatives by proposing suitable materials and systems to optimize project costs.

- Collaborated with the site team to ensure the timely delivery of materials and a smooth project handover post-award.
- Used electrical tools to verify electrical design aspects such as cable sizing and load calculations.
- Successfully contributed to winning bids for 5+ public-sector projects worth over EGP 500 million.

Dates : From Jan. 2023 till Feb. 2025

Employer : Gardenia Integrated General Contracting and Supplies - Alexandria, Egypt

Job title : Electrical Engineer (Technical & Site)

Job Description :

- Responsible for leading cost estimation and tender documentation for infrastructure & Low Voltage projects, including public health units and government facilities.
- Oversaw the execution of electrical systems for:
 - Village health unit in Sawl.
 - Administrative buildings for the Egyptian Tax Authority in Safaga, Marsa Alam & Al Mansoura.
 - Fish hatchery stations for the General Authority for Fish Resources Development (Toshka & Garf Hussien).
- Coordinated between the site execution and the technical office to ensure compliance with approved drawings and specifications.
- Monitored electrical work progress, resolved site issues, and ensured material availability on time.
- Prepared shop drawings and submitted material approvals in collaboration with consultants.

Dates : From Jul. 2020 till Dec. 2022

Employer : Heraa for Constracting & Supplies - Mokattam, Cairo

Job title : Electrical Engineer – Technical Office & Site Execution

Job Description :

- Supervised electrical installations for four administrative buildings for the Egyptian Tax Authority (Aga Khan, Maadi Tower, Sayeda Zainab and Suez).
- Prepared and revised shop drawings using AutoCAD; ensured implementation as per consultant standards.
- Installed low-voltage and low-current systems, including lighting, power, fire alarm, CCTV, Data, Queuing system, access control systems & Intrusion System.
- Estimated material requirements and submitted purchase orders to procurement.
- Allocated manpower and resources efficiently to maintain project timelines.
- Managed documentation for material submittals, site inspections, and approvals.
- Provided site coordination between electrical, civil, and mechanical trades.

Dates : From Apr. 2020 till Jul. 2020

Employer : Horus for Construction, Cairo

Job title : Electrical Site Engineer

- Job Description** :
- Executed complete electrical installation at Cairo Scan Radiology and Labs Center (El Tawoon Branch).
 - Prepared and submitted material approvals and coordinated inspections with consultants.
 - Supervised LV cabling, panel installation, earthing, lighting, and final testing.
 - Ensured site execution aligned with drawings and client standards under tight deadlines.
- Field of experience** :
- MEP Coordination: Aligning electrical work with mechanical, plumbing and civil disciplines.
 - Site Supervision: On-site execution, quality checks and consultant coordination.
 - Project Documentation: Shop drawings, material logs, as-builts, inspection reports.
 - Value Engineering: Identifying cost-saving alternatives without compromising functionality.
 - Procurement & Material Management: Creating POs, tracking deliveries, verifying specifications.
 - Technical Office Coordination: Drawings, submittals, approvals, and site communication.
 - Tendering & Cost Estimation: BOQs, pricing, vendor analysis, cost evaluation.
 - Electrical Engineering & Design: From concept to implementation across MV/LV systems & Low current systems.
 - Attention to Detail: Ensure accurate take-offs, drawings, BOQs and technical documents.