

103012-ELE-235DMix-E-2016
Senior Maintenance Engineer (HV/MV Network)

Holds a B. Sc. in Electrical Engineering and has 9+ years of experience in high-voltage and medium-voltage power systems, SCADA/PLC control systems, and national infrastructure projects. Currently serving at Egyptian Electricity Transmission Company, leading maintenance and reliability operations for transformers up to 220KV.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 22/01/1994
Gender : Male
Marital Status : Married
Residence : Alexandria

EDUCATION

: B. Sc. in Electrical Engineering, Higher Institute of Engineering and Technology in Arish, 2016

LANGUAGES

Arabic : Native Language
English : Good

COMPUTER SKILLS

: Windows, MS Office, Internet
: SCADA / PLC (Siemens)
: HMI Systems
: GIS Tools
: AutoCAD
: Matlab
: Power BI
: SAP

TRAINING COURSES AND CERTIFICATIONS

: PMP Preparation Course (35 Hours) – Egyptian Syndicate of Engineers (Dec. 2025 - Feb. 2026) and preparing for the PMI certification exam, reinforcing advanced project management and leadership competencies.
: Data Analysis – Arab Academy (2024).
: On-Load Tap Changer Design & Maintenance (2023).
: Transformer Oil Analysis (2023).

- : Chlorination Systems & Risks (2019).
- : OSHA Construction Safety (10H) (2016).
- : Summer Training: Military Factory 999 (PLC & CNC) (2013).

CHRONOLOGICAL EXPERIENCE RECORD

Dates : From Jan. 2022 till now

Employer : Egyptian Electricity Transmission Company

Job title : Senior Maintenance Engineer – HV/MV Network

Job Description :

- Lead maintenance, repair, and overhaul of transformers up to 220KV.
- Manage MR tap changers, oil analysis programs, and refurbishment planning.
- Develop preventive maintenance schedules to improve system reliability.
- Apply TPM concepts to reduce breakdown frequency and improve equipment availability.
- Conduct root cause analysis for transformer failures and network faults.
- Monitor maintenance KPIs and contribute to OEE improvement initiatives.
- Ensure strict compliance with HSE and national electrical standards.
- Participate in technical procurement activities, including reviewing specs and supplier offers.

Dates : From May 2025 till Mar. 2026

Employer : The Periti Group Egypt

Job title : OSP Engineer Assistant

Job Description :

- Support OSP and ODN network design using GIS tools.
- Contribute to FTTH (Fiber to the Home) network planning and distribution layout design.
- Utilize VETRO Fiber Map platform for fiber route design, capacity planning, and network documentation.
- Delivered 50+ GIS-based network design and modification projects including fiber routing and data connectivity solutions.
- Provide technical clarifications and project support to regional clients in Arabic.
- Coordinate with multidisciplinary teams to optimize OSP planning, fiber deployment, and execution efficiency.
- Feeder & Distribution fiber planning.
- As-built documentation.
- Fiber capacity & loss calculation.

Dates : From Jan. 2020 till Dec. 2021

Employer : Egyptian Electricity Holding Company

Job title : Distributed Energy Engineer – Sinai Region

Job Description :

- Maintained and upgraded 11/0.4KV distribution networks in remote areas.
- Designed electrical layouts for new villages and rural developments.
- Led emergency response operations for critical facilities including Taba Airport.

- Supervised transformer, cable, and pole replacement activities.

Dates : From Oct. 2018 till Jan. 2020
Employer : Samcrete Holding
Project : West Water Station National Project
Job title : Electrical Engineer
Job Description :

- Managed SCADA/PLC systems for pumps, actuators, and soft starters.
- Supervised MV distribution (33/11KV) and light current systems (CCTV, fire alarm).
- Led three subcontractor teams (~30 personnel).
- Oversaw full electrical distribution system (380/220/110V).

Dates : From Jul. 2016 till Aug. 2017
Employer : Orascom Construction
Project : Port Said Tunnels Project
Job title : Control Systems Engineer
Job Description :

- Delivered PLC/SCADA control systems for 72-mold concrete casting system.
- Maintained HMI, CCTV, and fire alarm systems.
- Led 10 technicians ensuring 24/7 operational continuity.

Field of experience :

- Experienced in preventive and corrective maintenance, root cause analysis, and asset reliability improvement.
- Exposure to Total Productive Maintenance (TPM), OEE optimization, and continuous improvement initiatives focused on enhancing operational efficiency and minimizing downtime.
- In addition to technical execution, possess hands-on experience in technical procurement including preparation of technical specifications, BOQ review, supplier evaluation, and supporting commercial decisions to ensure compliance, availability, and cost optimization.
- Key Achievements:
 - 2017 – Port Said Tunnels National Project: Successfully completed the electrical infrastructure and control systems implementation for the national tunnelling project in Port Said with Orascom Construction, ensuring full operational readiness of power distribution and automated control systems within project timeline.
 - 2019 – Badr Wastewater Treatment Plant: Delivered initial handover of Badr City wastewater pumping station with Samcrete Holding, and developed a structured operation and maintenance system for pumps and generators, enhancing equipment reliability and long-term operational efficiency.
 - 2021 – Central Sinai Electrical Infrastructure Development: Contributed to the electrical infrastructure development and network expansion of multiple villages in Central Sinai with Egyptian Electricity Holding Company, improving power stability, distribution capacity, and service accessibility in remote areas.
 - 2022 – Transformer Replacement Project (220KV Substation – EI-

Dekheila): Successfully executed the replacement of a 220 kV power transformer at El Dekheila Substation, in addition to multiple 66 kV transformers, with Egyptian Electricity Transmission Company, ensuring minimal service interruption and full compliance with national grid standards.

- 2023 – Commissioning of Alex West Substation (220/66/11KV): Led receiving, energization, and full operational commissioning of Alex West Substation (220/66/11KV) with Egyptian Electricity Transmission Company, ensuring safe grid integration and operational readiness according to transmission regulations.
- 2025 – Central Scrap Warehouse Security System Implementation: Designed and implemented a comprehensive CCTV security system for the Central Scrap Warehouse serving Alexandria, Beheira, and Coastal sectors under Egyptian Electricity Transmission Company, enhancing asset protection, monitoring efficiency, and loss prevention controls.
- 2025-2026 – GIS & FTTH Network Planning Excellence: Developed 100+ fiber network plans using 3-GIS platform, and designed fiber distribution layouts for more than 50 network plans and projects. Gained hands-on expertise in fiber route planning, ODN structure design, and network documentation using Vetro Fiber Map, contributing to efficient FTTH deployment and optimized fiber infrastructure planning.

- Core Skills:

- Maintenance & Operations:
 - ❖ HV/MV Transformer Maintenance (6.6-220KV).
 - ❖ Preventive & Predictive Maintenance.
 - ❖ TPM & OEE Improvement.
 - ❖ Root Cause Analysis.
 - ❖ HSE Compliance (3M Concept).
- Project & Technical Management:
 - ❖ Substation Commissioning (220/66/11KV).
 - ❖ Project Coordination & Team Leadership.
 - ❖ Technical Procurement & BOQ Review.
 - ❖ Supplier Technical Evaluation.
 - ❖ Budget & Resource Planning.