

# 101276-ELE-2DPSTwyz-E-2013

## Senior Protection Engineer

Holds a B. Sc. in Electrical Power & Machines Engineering and has over 6 years hands-on experience working in design, protection, testing and commissioning for EHV/HV and MV Substations in Gulf countries.

### PERSONAL DATA

Nationality : Egyptian  
Gender : Male  
Residence : Cairo

### EDUCATION

: B. Sc. in Electrical Power & Machines Engineering, Helwan University, 2013

### LANGUAGES

Arabic : Native Language  
English : Very Good

### COMPUTER SKILLS

: Windows, MS Office (Word, Excel), Internet  
: Relays Software (DIGSI, ACSELERATOR QuickSet, MiCOM Agile, EnerVista, MiCOM Easergy and Freja Win)  
: AutoCAD and MicroStation  
: MS Project  
: Adobe Photoshop Designer  
: JAVA

### TRAINING COURSES AND CERTIFICATIONS

: Project Management Professional (PMP), PMI (2017).  
: Advanced Microsoft Excel Formulas & Functions (2020).  
: Preparation for Project Management Professional (PMP) (2016).  
: Design of Substations Protection and Control (2012).  
: Distribution (Lighting, Earthing, Light Current, AutoCAD, ETAP and Cable Sizing) (2011).  
: Classic Control (2010).

# CHRONOLOGICAL EXPERIENCE RECORD

**Dates** : From Aug. 2020 till now  
**Employer** : Electro Tharwat  
**Project** : DCC Project - New Cairo Zone (Main Contractor: Schneider Electric):

- Upgrade MV grid by connecting existing Switchgears and Distribution Points to the relevant Distribution Control Center.
- Apply reinforcements/Modifications to various types of Switchgears.

**Job title** : Senior Protection Engineer  
**Job Description** :

- Doing surveys and collecting data from the existing substations, DPs and RMU.
- Design and implement required modifications, interfaces to comply project goals.

**Dates** : From Mar. 2016 till May 2020  
**Employer** : Al-Gihaz Energy Services Company (GeSCo) - Saudi Arabia  
**Projects** :

- 380/110/13.8KV Makkah Housing BSP Substation (Makkah)
- Spare Parts Testing (Jeddah/Tabuk)
- 110/13.8KV Misfalah-4 Substation (Makkah)
- 132/33KV Sakaka-PV Switching Station (Sakaka)
- 110/13.8KV Sail Road Substation (Makkah)
- 110/13.8KV Haram Road Substation (Makkah)
- 110/13.8KV Al-Naseem Substation (Makkah)
- 110/13.8KV Al-Manar Substation (Jeddah)
- 110/13.8KV King Abdul-Aziz University-4 Substation (Jeddah)

**Job title** : Testing & Commissioning Engineer  
**Job Description** :

- Testing protection Relays (Siemens, SEL, GE, ABB, MiCom):
  - Line, Transformer, Busbar and Capacitor Protection Relays.
  - OC/EF, UV/UF load shedding Relays.
- Testing & Commissioning for MV, HV and Extra HV Switchgears:
  - MCB, MCCB, Auxiliary Relays, Timers and Contactors Tests.
  - CT, PT, Circuit Breaker and Meters Tests.
- Schemes Functions tests, check and interfacing for Protection & Control Panels.
- Stability tests, Primary and Secondary Injection for 110kV busbar and Transformers, Testing MV Cables.

**Dates** : From Feb. 2015 till Mar. 2016  
**Employer** : Bahrawy Consultancy Group (B.C.G.) - Egypt  
**Projects** :

- 132/13.8KV Tabuk Housing Substation (Al-Gihaz)
- 110/13.8KV Makkah Housing-2 Substation (Al-Gihaz)
- 110/13.8KV Makkah Housing-3 Substation (Al-Gihaz)
- 110/13.8KV Madinah Housing Substation (Al-Gihaz)
- 33/13.8KV Lajwan Substation (Siemens)
- Makkah University-1 33KV SWGR Replacement (Siemens)
- 132/33KV Thadeq Substation (Al-Babtain)
- 132/33/13.8KV Khamis West Substation (Al-Gihaz)
- 110/33KV King Faisal Hospital Substation (Al-Gihaz)

- 132/33KV Al-Quz Substation (Al-Gihaz)
  - 132/13.8KV Qunfudah North Substation (Al-Gihaz)
  - 110/13.8KV Al Sharaia-2 Substation (AECC)
- Job title** : Secondary Design Engineer
- Job Description** :
- Preparing Full Base Design for HV and MV substations:
    - Operational Single Line Diagram.
    - Protection Logic Diagram & Relaying and Metering OLD.
    - CT/PT Sizing Calculations.
    - SAS Point list (Alarms, Indications, Commands, Fault Recorder, SOE).
  - Full Substation Panels interfacing - Cable schedules and terminations.
  - Coordination with Contractors.