

# 100215-ELE-12ETyz-E-2018

## Testing & Commissioning Engineer

Holds a B. Sc. in Electrical Power & Machines Engineering and has about 5 years experience working in testing, commissioning and technical office.

### PERSONAL DATA

Nationality : Egyptian  
Gender : Male  
Marital Status : Single  
Residence : Shoubra Masr, Cairo

### EDUCATION

: B. Sc. in Electrical Power & Machines Engineering, Helwan University, 2018  
: Secondary Education: Saint Catherine Language School, 2013

### LANGUAGES

Arabic : Native Language  
English : Fluent  
French : Basics

### COMPUTER SKILLS

: Windows, MS Office, Internet  
: DIGSI 5  
: Matlab  
: C++  
: AutoCAD  
: Dialux Evo  
: ETAP  
: Adobe Photoshop, Ai  
: PLC control system  
: Arduino  
: PCM600  
: SICAM

### TRAINING COURSES AND CERTIFICATIONS

: ISI Academy (Schneider Electric): Electrical system designs and the feeding systems (from Jan. till Apr. 2018).

- : American University in Cairo (AUC): Level B1A English course (Nov./Dec. 2017).
- : Diploma for Export from Foreign Trade Training Center (Oct./Nov. 2018).
- : Certified Associate in Project Management (CAPM) from AUC (Apr./May 2019).
- : Preparation course in 2020.
- : Internships:
  - Monastery of Saint Anthony in Red Sea, Renewable and clean sources of energy in a 200 kilo watts solar field. It was led by German professors (Mar. 2018).
  - Orascom, The Grand Egyptian Museum in Giza, Energy Center (generators, Cable laying, Switchgear, Fire Fighting) (Jul./Aug. 2017).
  - Orascom, New Capital Power Plant in Sokhna Road, in transformers Erection, cable laying, Gas Station and GIS (Aug./Sep. 2017).
  - Philips, Lighting Sessions, LED Technology, City Stars Capital Building (Jul. 2016).
  - South Cairo Ministry of Electrical Distribution (summer 2015): Gained some knowledge about electrical distribution system and classic control.
  - Ministry of Electricity and Renewable Energy (Southern Power Station), (Transmission lines and Classic control) (Jan. 2015).

## CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From Jan. 2019 till now
- Employer** : Elsewedy PSP
- Projects** :
  - Layyah Combined Cycle Power Plant, Sharjah, UAE (from Apr. 2021 till now):
    - Perform all tests/commissioning for MV SWGR (Gas, Steam, Fuel gas Medium voltage SWG) (ABB SWGR).
    - Perform all testing and commissioning for LV SWGR (ABB SWGR/Schneider).
    - Perform testing and commissioning for all Cranes, Lighting systems.
    - Perform all testing and commissioning for ABB GCB.
    - Perform all tests for AC/DC Distribution boards.
    - Perform all needed red markup/as built drawings for the system after being commissioned.
    - Perform all needed Configuration modifications and testing for High speed bus transfer and settings for protection relay in MVSGRs and LVSWGRs.
    - Perform all tests relate to Neutral grounding resistor tests (NGR Transformer MHPS).
    - Protection testing/modifications for Configurations/settings on ABB, SIEMENS Relay.
    - DC Batteries charging and discharging.
    - Testing AC/DC UPS Systems.
    - MV/LV Motors testing (Megger - Phase Rotation - Solo Run Test).
    - Cable testing (Continuity - IR Test - Hi-pot).
    - IPB Isolated Phase Bus (IR Test - Hi-pot).
  - Mothana / Maysan / Shatra / Shat Al Arab 400/132/11KV Four substations, Iraq (Jan. 2020 – Apr. 2021):
    - 400KV GIS, one and half breaker bus bar arrangement, Toshiba.

- 132KV GIS, Double bus Single breaker bus bar arrangement, Toshiba.
- Power transformer, 400/132/11KV, 250/3 250/3 75/3 MVA, Toshiba.
- GE substation control system.
- Configuration for All Protection Relays (ABB, SIEMENS).
- Performing Stability Tests, Transformer Diff Protection, and Restricted Earth Fault.
- CT and VT Loop Test.
- Perform all the tests needed in Toshiba GIS (Contact Resistance, Timing for Circuit breakers and disconnectors, Scheme check, function test, CT and VT tests, Hi-pot test).
- Performing Training to The Owner.
- Protection Signals with SAS System by using IEC61850 protocol.
- Manshiet Nasser 220/66/11KV substation, Turn-key project, Egypt (Jun. 2019 – Jan. 2020):
  - 220KV GIS, Double bus Single breaker bus bar arrangement, Taikai.
  - 66KV GIS, Double bus Single breaker bus bar arrangement, Taikai.
  - Power transformer, 220/66/11KV, 125 MVA.
  - Power transformer, 66/11KV, 40 MVA.

- Job title** : Testing & Commissioning Engineer
- Job Description** :
- Create a schedule of commissioning activities for each stage of the process.
  - Review and revise project drawings and schematic diagrams.
  - Review and revise Project Protection Devices Configuration (checking I/O configuration, Reviewing Settings, Activated Function according to the approved scheme).
  - Perform all the modifications for logic/configuration for Protection Relays (Siemens, ABB).
  - Perform power plant/substation commissioning activities.
  - Review and test plant interlocking (powerhouse - Substation).
  - Responsible for preparing red-marked copies and as-built drawings for all involved systems.
  - Completing operating and maintenance manuals, record drawings, software, and test certification.
  - Perform all the tests needed in GIS (500 KV, 400KV, 220KV, 132KV, 66KV, 33KV and 22KV), (LCC scheme checking, interlock, Breaker timing, contact resistance, Hi-pot test, and partial discharge).
  - Perform IEC61850 Protocol for protection relays (Siemens, ABB) Goose message between Relays and Station signals for SAS.
  - Familiar with IEC 101, IEC 104 and Modbus.
  - Prepare all the test sheets for the tests and compare the results with the international standards (IEC).
  - Perform all configuration/setting updates needed in protection relays.
  - DC and UPS system (charging batteries, system commissioning and start-up).
  - Prepare all the test sheets for the tests and compare the results with the international standards (IEC).
  - Perform all needed trainings for owner and owner engineer as per requested for all tested systems.

**Dates** : Sep. 2018  
**Employer** : 3Brothers for Light  
**Job title** : Technical Support Engineer  
**Job Description** :

- Lighting Design using CAD, Relux and DIALux Evo (Street, indoor and outdoor lighting).
- Submit submittals and Compliance sheets required from consultant side.
- Cost estimate for BOQ's.

**Dates** : From Aug. 2017 till Jan. 2018 (during education)  
**Job Description** : Physics Teacher for High School.

**Dates** : From Jul. 2016 till Sep. 2016 (during education)  
**Job Description** : Assistant Restaurant Manager, Saja Café and Restaurant.

**Equipment:**

CPC 100, ISA T3000, CT Analyzer, Megger, Tan Delta, Hi-Pot, DET4TD2, MOM200-600A, ODEN Primary injection, TR-Mark iii, WR-15-50, Omicron 356, FREJA, CB analyzer, etc.