

**101880-ELE-12MOPT-E-2007**  
**Testing & Commissioning Engineer**

Holds a B. Sc. in Electrical Power & Machines Engineering and has over 10 years hands-on experience working in testing, commissioning and maintenance.

## PERSONAL DATA

Nationality : Egyptian  
Birth Date : 12/09/1984  
Gender : Male  
Marital Status : Married

## EDUCATION

: B. Sc. in Electrical Power & Machines Engineering, Tanta University, 2007  
: Secondary Education: El-Abasyah School in Alexandria, 2001

## LANGUAGES

Arabic : Native Language  
English : Very Good

## COMPUTER SKILLS

: Windows, MS Office (Word, Power Point), Internet  
: AutoCAD 2D  
: Photoshop  
: Web Programming Language (HTML & CSS)

## TRAINING COURSES AND CERTIFICATIONS

: Training in Alexandria Electrical Company (Aug. 2005).  
: Training course on basic operation of Mitsubishi 701F gas turbine and auxiliaries, operation of purge air compressors, operation of pulse air compressors operation of gas compressors. In additional to classroom training deeply covers the description of the above mentioned topics (Jun. 2009).  
: Training course in Schneider Electric on operation and maintenance for MV SWGR's type (RoNex), MV C.B's type (LF), LV SWGR's type (Blok Set), LV C.B's, D.O.L starters, Sepam configuration, Characteristics, Protection function, measurement, metering reading, Transformer classification, concept, types, routine tests and EMCS system overview (Apr. 2010).  
: Training course on power transformer in Sidi Krir Power Station by AREVA (Apr. 2010).  
: Training site course on transformer protection (Apr. 2010).

- : Training site and DCS course in operation of heat recovery steam generator (NEM), Jun. 2010).

## CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From Jul. 2015 till 2017
- Employer** : AL-OSAIS INTERNATIONAL HOLDING COMPANY, KSA
- Projects** :
- Ad Dhahiyah 132/13.8KV S/S, Eastern Operating Area, KSA:
    - Testing of Relays:
      - 411L (MAKE: SEL).
      - P546 (MAKE: ALSTOM).
      - 7SD522 (MAKE: SIEMENS).
      - 487E (MAKE: SEL).
      - P643 (MAKE: ALSTOM).
      - P142 (MAKE: ALSTOM).
      - Auxiliary relays (MAKE: ABB and ALSTOM).
    - Testing and commissioning of 132KV GIS LCC, Relay and Control panels.
    - Testing and commissioning of 132KV GIS CT'S, VT'S and Sf6 Breakers.
    - Testing and commissioning of 132/13.8KV power transformer 67 MVA.
    - Testing and commissioning of 13.8KV Switchgear panels.
    - Testing and commissioning of SAS signal alarms.
  - Az Zuhoor 115/13.8KV S/S #2, Ad Dammam Eastern Operating Area, KSA:
    - Testing of Relays:
      - 411L (MAKE: SEL).
      - P546 (MAKE: ALSTOM).
      - 487E (MAKE: SEL).
      - P643 (MAKE: ALSTOM).
      - P142 (MAKE: ALSTOM).
      - Auxiliary relays (MAKE: ALSTOM).
    - Testing and commissioning of 115KV GIS LCC, Relay and Control panels.
    - Testing and commissioning of 115KV GIS CT'S, VT'S and Sf6 Breakers.
    - Testing and commissioning of 115/13.8KV power transformer 67 MVA.
    - Testing and commissioning of 13.8KV Switchgear panels.
    - Testing and commissioning of 13.8KV switch gear CB.
  - Az Zulfi 132/13.8KV S/S #8850, Az Zulfi Qaseem Area, KSA:
    - Testing of Relays:
      - 411L (MAKE: SEL).
      - P546 (MAKE: ALSTOM).
      - 487E (MAKE: SEL).
      - P643 (MAKE: ALSTOM).
      - P142 (MAKE: ALSTOM).
      - Auxiliary relays (MAKE: ABB and ALSTOM).
    - Testing and commissioning of 132KV GIS LCC, Relay and Control panels.
    - Testing and commissioning of 132KV GIS CT'S, VT'S and Sf6

- Breakers.
- Testing and commissioning of 132/13.8KV power transformer 50/67 MVA.
- Testing and commissioning of 13.8KV Switchgear panels.
- Testing and commissioning of SAS signal alarms.
- AL FADHILI HVDC SUBSTATION, MAINTENANCE SERVICE FOR HVDC, AL FADHILI, KSA:
  - Annual maintenance for the S/S.
  - Testing for:
    - Outdoor disconnectors and earth switches.
    - Auxiliary transformers.
    - Current transformers.
    - MV CB.
    - LV CB.

**Job title** : Testing & Commissioning Engineer

- Job Description** :
- Testing of Relays: 411L (MAKE: SEL), P546 (MAKE: ALSTOM), 487E (MAKE: SEL), P643 (MAKE: ALSTOM), P142 (MAKE: ALSTOM) and 7SD522 (MAKE: SIEMENS).
  - Auxiliary relays (MAKE: ABB and ALSTOM).
  - Testing and commissioning of 132KV GIS LCC, 115KV GIS LCC, Relay and Control panels, 132KV GIS and 115KV GIS CT'S, VT'S and Sf6 Breakers.
  - 132/13.8KV and 115/13.8KV power transformer 50/67 MVA.
  - 13.8 KV Switchgear.
  - Outdoor disconnectors and earth switches.
  - Auxiliary transformers.
  - Current transformers.
  - HV CB, MV CB and LV CB.

**Dates** : From Jun. 2009 till Jul. 2015

**Employer** : West Delta Electricity Production Company (WDEPC)

**Project** : Sidi Krir Combined Cycle Power Plant 750MW

**Job title** : Electrical Leader Engineer for Maintenance Team / Shift Charge Engineer

- Job Description** :
- Electrical Lead Engineer for Maintenance Team (from Jun. 2012 till Jul. 2015):
    - Maintenance for auxiliary systems.
    - Main Protection Relays for distance, Line Diff, Transformer diff, over current, O/U freq, AVR and I/O box.
    - Scheme Checking and modifications for control circuits, Logic circuits for HV GIS LCC (500KV, 220KV, 132KV and 115KV) and MV (13.8KV and 6.3KV).
    - Transformer Testing (Turns ratio, Winding resistance, Vector group, Percentage impedance, Core balance, megger and polarization index, tan delta, excitation current, Gauge Calibration, Bushing CT testing, and oil breakdown test).
    - Gas Turbine Generator 350 MVA / 21KV hydrogen cooled with static excitation system and beckwith protection devices (M3425-A) for generator and (M3310) for excitation transformer.
    - Steam Turbine Generator 340 MVA / 15.75KV hydrogen cooled with static excitation system and MICOM (P141 and P345) protection devices.

- Main transformers 300 MVA 21/500KV oil immersed off load tap changer with Siemens Seprotec. Protection devices.
- Auxiliary transformers 300MVA / 6.3KV oil immersed on load tap changer with Siemens Seprotec. Protection devices.
- Medium Voltages Switchgears (6.3KV) Schneider SF6 type circuit breakers with Sepam protection devices.
- Low Voltages Switchgears (380V) air type circuit breakers Schneider.
- DC Battery chargers and UPS system.
- 1750 KVA black start-up Diesel generator with dynamic excitation system.
- Cathodic protection System impressed current and sacrifices anode by (NCE).
- Trash Rack and Travelling Screen Systems.
- 500KV underground cables with air side termination and SF6 side termination by (BRUGG).
- 6.3KV induction motors, 400V induction motors, 125V DC motors and local control panels.
- Earth grid systems by (OTAK).
- Shift Charge Engineer (from Jun. 2009 till Jun. 2012):
  - Participate in commissioning and start-up of 2x250MW Mitsubishi Heavy Industries (MHI) GAS Turbine.
  - Participate in commissioning and start-up of 1x250MW Steam Turbine (ANSALDO).
  - Participate in commissioning, Steam blow, Bypass operation and start-up of (NEM) heat recovery steam generator.

**Dates** : From May 2007 till May 2009

**Employer** : Forming Company for Metal Formation, Alexandria

**Job title** : Electrical Maintenance Engineer

- Job Description** :
- Maintain damaged machines.
  - Design a control circuit for new machines.
  - Execute all control circuits for new machines.
  - Programming drives for motors.
  - Execute PLC circuits.

- Field of experience** :
- Testing & commissioning for protection devices, AC circuits, DC circuits, Transformers, Circuit Breakers.
  - Construction, Commissioning, Start-up & Maintenance for equipment, systems of:
    - Gas and Steam Turbine Generator hydrogen cooled with static excitation system, and excitation transformer.
    - Generator Protection Relays (MICOM, SIEMENS and ALSTOM devices).
    - Line Protection Relays (MICOM, SIEMENS and SEL devices).
    - Power transformers oil immersed, off load Tap Changers, and on load Tap Changers.
    - Dry type Transformers and oil sealed type Transformers.
    - Transformer Protection relays (MICOM, SIEMENS devices).
    - Medium Voltages Switchgears (13.8KV) ABB make.
    - Protection commissioning for 500KV Substation (SIPROTEC devices).

- GIS installation and commissioning for 500KV Substation (Siemens devices).
- Medium Voltages Switchgears (6.3KV) Schneider SF6 type circuit breakers with Sepam protection devices.
- Low Voltages Switchgears (380V) air type circuit breakers Schneider.
- DC Battery chargers and UPS system.
- Black start-up Diesel generator with dynamic excitation system.
- Cathodic protection System impressed current and sacrifices anode by (NCE).
- Trash Rack and Travelling Screen Systems.
- 500KV underground cables with air side termination and SF6 side termination by (BRUGG).
- 6.3KV induction motors, 400V induction motors, 125V DC motors and local control panels.
- Earthing grid systems.
- Experience in high voltage, Medium Voltage and low voltage systems about 10 years.