

<b>104614-ELE-MS-E-2004</b> <b>Testing, Commissioning &amp; Maintenance Engineer</b>
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Holds a B. Sc. in Electrical Power Engineering and has about 13 years hands-on experience working in testing, commissioning and maintenance.

## PERSONAL DATA

Nationality : Egyptian  
Birth Date : 25/12/1981  
Gender : Male  
Marital Status : Married  
Residence : Shoubra El-Kheima

## EDUCATION

: B. Sc. in Electrical Power Engineering, Zagazig University, 2004

## LANGUAGES

Arabic : Native Language  
English : Very Good

## COMPUTER SKILLS

: Windows, MS Office (Word, Excel, Power Point), Internet  
: Autodesk AutoCAD Drawing and Pro-Engineer programs

## TRAINING COURSES AND CERTIFICATIONS

- : BECHTEL Course: Shoubra El-Kheima power plant basics and site specific training courses, constituting a program of concentrated study of power plant equipment and system theory and application (from Jan. till Mar. 2009).
- : Cairo Electrical Distribution Company summer training (MV and LV Electrical Distribution networks) (Jul./Aug. 2002):
  - Shoubra El-Kheima Substation Tests.
  - El-Helmia Substation.
  - Shoubra El-Kheima Power Plant SWGR Tests.
  - Al-Tebeen Batteries Tests.
  - El-Khanka substation GIS Tests.
  - Talkha Power Plant SWGR Tests.
  - Damietta Port SWGR Tests.
  - Cairo Electricity Production Company Earthing Network measuring by tester.
  - Cairo West Power Plant measuring the hotspot point for feeders OHTL by IR thermal Camera.

- Installation 500KV 6 surge arrestors at Cairo West Power Plant.

## CHRONOLOGICAL EXPERIENCE RECORD

**Dates** : From Oct. 2006 till now  
**Employer** : Cairo Electricity Production Co. (CEPC)  
**Job title** : Electrical Commissioning, Testing & Maintenance Engineer  
**Job Description** :

- Maintenance and Testing Engineer of 21KV, 350MW large Turbo Generator:
  - Megger, short circuit and open circuit Tests of generator.
  - H2 Drying System of Generator Maintenance and Test.
  - Brushes and Seal Oil Systems of Generator Maintenance.
- Installation, Commissioning Maintenance of Digital Exciter (Siemens).
- Installation and Testing of 3-Dry Exciter Transformers (21KV/605V).
- Maintenance and testing of Medium voltage and Low Voltage motors and switch gear (SIEMENS and ABB).
- Testing of H.V. equipments (Megger test, winding resistance, transformers capacitance, dissipation factors and turns ratio test).
- GIS maintenance and testing (DELO cart to suction, vacuum and filling Sf6 compartment to maintenance, SF6 analysis, SF6 percentage Test and Sf6 Dew point Test).
- Timing and Contact Resistance Test of HV and MV Circuit breakers.
- Maintenance of disconnect and earthing switches up to 500KV.
- Installation, testing and check of Construction and Commissioning of 500KV GIS extension at Cairo West Power Station.
- Testing and check of the wiring control and interlock of GIS extension at Cairo West Power Station.
- Maintenance of 6.6KV 2-Diesel generator 3MW.
- Cathodic protection Testing and Maintenance.
- Installation and Maintenance of pipes Heat Tracing by electrical heater.

**Dates** : From Nov. 2016 till Dec. 2016  
**Employer** : Electro-Tharwat Company  
**Project** : Suez Gulf 500KV substation extension  
**Job title** : Electrical Commissioning & Testing Engineer  
**Job Description** :

- This project included a Three phases 500/220KV, 500MVA (3x167single phase) Auto transformer with one bay extension for existing 500KV Suez substation.
- 500KV out-door VT's and CT's Test (by CPC100 tester).
- 500KV timing and contact resistance for out-door Sf6 CB, DS, and ES (by TM100 tester).
- 500KV busbar contact resistance test.
- Function check for all Local, remote and interface panels.
- Operation, interlock and modifications of transformers.
- Transformer electrical and mechanical test.
- Re-arrangement of all cables and wiring of all panels.
- Check wiring and modified the incorrect wiring.
- Check all functions of all equipments.

**Dates** : From Apr. 2016 till May 2016  
**Employer** : Cairo Electricity Production Co.  
**Project** : 375 MVA, 500/220KV Auto-Transformer Repaired after Explosion  
**Job title** : Maintenance & Commissioning Engineer  
**Job Description** : Many procedures were taken to repaired the explosion transformer such as: removed oil and put it in storages tanks and filtered it, removed all failure bushings and replaced them by new bushings, replaced the damage insulation tapes, checked all wiring and replaced by new, replaced the damage winding temperature indicators, refilled the transformer by filtered oil, made all electrical tests, and re-operated the transformer to healthy conditions and loaded it.

**Dates** : Mar. 2016  
**Employer** : ERCC Company  
**Project** : 52.5MW on-grid solar energy project  
**Job title** : Inspector Engineer  
**Job Description** :

- This project called Shams Ma'an power generation PSC, at Jordan Kingdom.
- This project contained about 6,900,000 PV modules made by First Solar frameless, with tracking system, 3 under ground cables feeders with 33KV, 34 PCS, 1 PVCS SWGR.

**Dates** : From May 2015 till Jun. 2015  
**Employer** : PSP Company  
**Project** : Lina Farm 66KV substation  
**Job title** : Electrical Commissioning & Testing Engineer  
**Job Description** :

- 66KV out-door VT's and CT's Test (by CPC100 tester).
- 66KV timing and contact resistance for out-door CB's (by Megger DLRO600 and Megger TM1710).
- 22KV timing and contact resistance for out-door CB's (by Megger DLRO600 and Megger TM1710).
- 66KV busbar and 22KV busbar contact resistance test.
- Check for batteries and chargers and AC/DC room.
- Function check for all Local, remote and interface panels.
- Operation, interlock and modifications of all transformers and feeders.
- Transformers electrical and mechanical test.
- Re-arrangement of all cables and wiring of all panels.
- Check wiring and modified the incorrect wiring.
- Check operation of transformers tap changer and transmit the position reading to remote panels.
- Check the interlock between 66KV and 22KV SWGR's.

**Dates** : From Oct. 2005 till Sep. 2006  
**Employer** : Feeding Industrials Manufactures Co. (FIMCO)  
**Job Description** :

- Electrical and Mechanical Maintenance Engineer for Presses, compressors, Welding and cutting Machines ...etc.
- Coordinate the work to achieve Low time of breakdown of machines.
- Achieved the ISO certificate.

**Dates** : From Jan. 2005 till Sep. 2005  
**Employer** : DELTA CO. FOR ENGINEERING SYSTEM  
**Job Description** : Installation Automatic door & Maintenance Engineer for Automatic Door System.

**Dates** : From Jun. 2004 till Dec. 2004  
**Employer** : ELECTROTEX CO. FOR TEXTILE  
**Job Description** : Electrical Maintenance Engineer for Control panels of Textile Machines.

Skills:

- Experience in electronics.
- Experience in control panels design and maintenance.
- Experience in motors maintenance.
- Experience in PLC programs.
- Experience in air stations and compressors.
- Experience in electric installation and construction.