

Holds a B. Sc. in Electrical Power & Machines Engineering and has over 13 years hands-on experience working in protection and testing.

## PERSONAL DATA

Nationality : Egyptian  
Birth Date : 10/08/1981  
Gender : Male  
Marital Status : Married  
Residence : Tanta

## EDUCATION

: B. Sc. in Electrical Power & Machines Engineering, Tanta University, 2003

## LANGUAGES

Arabic : Native Language  
English : Very Good

## COMPUTER SKILLS

: Windows, MS Office, Internet

## TRAINING COURSES AND CERTIFICATIONS

- : Training course in AREVA Technical Institute - Lattes in France for one month in:
  - Operation and maintenance of MICOM P132, P632, P442, P741/P742, P923 relays and S1 studio software.
  - Operation, maintenance and basic configuration of AREVA SCS (PACIS).
- : Training course in operation and maintenance of SIEMENS SUBSTATION CONTROL SYSTEM (SICAM PASS CC).
- : Training courses were taken in Network Training Center in Cairo South (Helwan):
  - Instrument Transformer and power measurement.
  - Protection Fundamentals.
  - Feeder protection.
  - Bus-bar protection.
  - Digital protection.
  - Micom distance relay.
  - ABB Digital meter.

- : Computer operating system Windows XP.
- : ICDL training course:
  - Computer Operating System Windows 98.
  - Microsoft Office 2000 (Word, Excel, Access & Power Point).
  - Computer Hardware maintenance.
  - Internet skills (Introduction).
  - Typing tutor.

## CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From Mar. 2004 till now
- Employer** : Egyptian Electricity Transmission Company (EETC) (Delta Zone)
- Job title** : Protection Engineer
- Job Description** :
- Testing protection relays in substations 500/220/66/11KV.
  - Doing the basic tests for new substations.
  - Calculating operating and setting values for protection relays and testing it such as:
    - ABB (SPAJ140C, REJ521, REL316, REL511, REL531, REL561, SPAU130C, SPAU140C, SPAU341C, SPAD346C, SPAF140C, etc.).
    - SIEMENS (7SJ60x, 7UT512, 7UT612, 7UT613, 7VK610, 7VK611, 7SJ622, 7SA511, 7SA522, 7SA611, 7SA612, 7SS522, 7SS525, 7SJ610, 7RW600, etc.).
    - AREVA (P122, P132, P142, P441, P442, P632, P923, P926, P741, P742, MFAC, MCAG, etc.).
    - SEL (DISTANCE S321, AUTORECLOSER S279, DIFFERENTIAL S587, etc.).
    - GE RELAYS.
    - Breaker failure relays, Thermal over load relays, trip circuit supervision relays, auto-reclosure relays.
  - Maintaining and designing control circuits for any part in substation (i.e. power transformers, circuit breakers, isolators, compressors ....etc.).
  - Working on the operating programs for the digital relays such as ABB, SIEMENS, AREVA, SEL and G.E.
  - Testing power transformers (winding insulation, ratio test, D.C. resistance test and vector group test).
  - Testing circuit breakers (measuring contact resistance, measuring closing and tripping time and measuring circuit breaker insulation).
  - Testing current transformers (insulation test, ratio test, saturation test (magnetic curve), polarity test, winding resistance, loop resistance, single point test, primary test and secondary injection).
  - Testing voltage transformers (insulation test, ratio test, winding resistance, phase angle, loop resistance, polarity test and secondary injection).
  - Testing cables.
  - Good experience in troubleshooting in protection and control schemes, trouble shooting in operating equipments and devices.
  - Design and testing of interlocking schemes, control and alarm schemes, synchronizing schemes, voltage regulating schemes, bus bar schemes and breaker failure.
  - Good experience in reviewing schematic drawing.

- Good experience in transformer firefighting system.
- Good experience in AVR relays such as TAPCON230 & REG-DA.
- Operating experience of different types of testing and calibrating equipments like (primary injection PROGRAMMA, SVERKER780, FREJA306, OMICRON56, MAGNUS, C.T\_ ANALYZER, etc.).
- Good experience in substation fire alarm & fire hydrant systems.
- Good experience in AC & DC schemes.
- Good experience in AREVA SUBSTATION CONTROL SAYSTEM (PACIS).
- Good experience in SIEMENS SUBSTATION CONTROL SAYSTEM (SICAM PASS CC).

**Dates** : From Nov. 2013 till Apr. 2014  
**Project** : Kafr El-Zayat 500KV  
**Job title** : Substation Manager

**Dates** : From 2011 till now  
**Project** : Kafr El-Zayat 500KV  
**Job title** : Head of Protection Department

**Dates** : From Jan. 2008 till Jul. 2008  
**Employer** : HYUNDAI (MEEDCO) in K.S.A.  
**Project** : KHURAIS 380/115KV Substation  
**Job title** : Commissioning & Testing Engineer  
**Job Description** :

- Testing of AREVA O/C relay type MICOM P142.
- Testing of ABB distance relay REL531.
- Testing of AVR relay type TAPCON230 from MR.
- Testing of CT & VT.
- Scheme function tests.
- Testing of synch. Check relays & CBF relays.
- Testing of auxiliary relays.
- REF stability & sensitivity test.
- Transformer diff. stability & sensitivity test.
- Bus bar diff. stability & sensitivity test.