

Holds a B. Sc. in Electrical Power & Machines Engineering and a High graduate degree in protection and has over 24 years hands-on experience in commissioning and testing field. Ability to join different fields of engineering work including engineering design, laboratory testing, projects supervision (design, installation and start-up), quality control, production engineering, etc.

## **PERSONAL DATA**

Nationality : Egyptian  
Birth Date : 04/09/1962  
Gender : Male  
Marital Status : Married  
Residence : Cairo

## **EDUCATION**

: B. Sc. in Electrical Power & Machines Engineering, Helwan University  
: High graduate degree in protection, Ain Shams University

## **LANGUAGES**

Arabic : Native Language  
English : Very Good

## **COMPUTER SKILLS**

: Windows, MS Office (Word, Excel, Power Point), Internet

## **TRAINING COURSES AND CERTIFICATIONS**

: Training course on Indicted Fault Recorder at ABB – Egypt.  
: Training course on IDM Fault Recorder at Hathaway – England.  
: Training course on Protection CAPE at PP&L – USA.  
: Training course on Database Management and Fault Analysis (Operation, Measurements, Protection) at PP&L – USA.  
: Training course on Graduate Engineering at EEA – Egypt.  
: Training course on Power System operation.  
: Training course on instrument transformers & power measurement at EEA – Egypt.  
: Training course on protection fundamentals (Testing VT & CT & short circuit calculations) at EEA – Egypt.  
: Training course on protective relay testing at EEA – Egypt.  
: Training course on Distance Relays at EEA – Egypt.

## CHRONOLOGICAL EXPERIENCE RECORD

**Dates** : From Jul. 2010 till now  
**Employer** : Central Sector of protection, testing and measurements (Egypt)  
**Job title** : Executive Manager in fault recorder department

**Dates** : From May 2006 till Apr. 2010  
**Employer** : Al Fanar Company (KSA)  
**Projects** :

- Shuqaiq Power Plant, GEDDAH-KANDARAH S/S, NAMERAH S/S in Distance and Differential Relay Type RED670 (ABB), 7SD522 (SIEMENS)
- HOFUF (H.I.E.) in Distance relay, Differential Relay, over current and Automatic voltage Regulator (AVR)
- Najran Region, Gizan Region, Abha Region in Replacement of Distance relay and over current 132KV S/S (REL670 (ABB), 7SA522 (SIEMENS)): Working in commissioning Fault Recorder (IDM) and Event Recorder (SER) in Al Brik-Confoza-Duka
- Working in Commissioning Fault Recorder (IDM) and Event Recorder (SER) in following substations: Al Brik s/s – Confoza s/s – Dukas/s – Tohama power plant – 8060 s/s – 8059 s/s – 8051s/s – Ghornata s/s – 8019 s/s – 8014 s/s – 8025 s/s – 8057 s/s – 8059 s/s – 9009 s/s – 9003s/s – Almadina s/s – Dawadmi s/s
- Rabigh Power Plant (Mitsubishi) in sites FMS for 110KV S/S - FMS for Desalination Plant - FMS for 13.8KV SWG - 4.16KV SWG - FMS 480V Boiler SWG – 480V cooling tower - transformer generator control room – 480V workshop/workhouse)
- New Tabrgil S/S 33KV substation (SEC-EOA), Tohama Power Plant Ext. III (SEC-WOA), 9006 substation 380/132KV and 8606 Aramco substation 132KV (SEC-COA)

**Job title** : Commissioning & Testing Engineer

**Dates** : From Mar. 1993 till May 2006  
**Employer** : EEA  
**Job title** : Protection Engineer  
**Job Description** : Working at central sector of protection, testing and measurements.

**Field of experience** :

- Current & Voltage Transformers:  
Can measure and test the following:
  - CT Ratio Test (by using CPC100 or Primary Current injection test system: ODEN).
  - VT Ratio Test (by using CPC100 or step up transformer MAGNUS).
  - CT & VT Polarity Test (by using inductive kick method).
  - CT Magnetization (Saturation) Curve Test (by using CPC100 & MAGNUS).
  - CT & VT Winding Insulation Test (by using Megger).
  - CT & VT Winding Resistance Test (by using drop of potential method).

- Protective Relays Testing:
  - Can test and measure the following:
    - Distance Test (Siemens, ABB).
    - Differential Test (Siemens, ABB).
    - Fault Recorder Test (Hathaway).
    - By making secondary injection (using Fraja 300 or OMICRON type: CMC 256-6) I can test the following:
      - Function test of distance relays.
      - Timing test for every stage.
      - Over Current & Earth Fault protection relays.
      - Directional O.C. & directional Earth fault protection relays.
      - Restricted E.F. protection relays.
      - Differential protection relays.
      - Synchro check relays.
      - AVR relays.
      - Auto recloser relays.
      - CBF relays & CT Supervision relays.
      - Over (or Under) Frequency protection relays.
      - Over temperature protection relays.
      - Gas protection relays as: Buchholz.
    - By making secondary injection (using Fraja 300 or SVERKER 750) I can test the following for all relays:
      - Pick up test, Drop out test, Timing test & Output contact check.
- Other testing at new substations:
  - Testing all types of auxiliary relays and timers.
  - Primary injection of CT and follow the current in all secondary circuit.
  - Secondary injection of relays (Distance, Differential, O.C., E.F., etc.).
  - Secondary injection of CT & VT Loop.
  - Check scheme as Control circuit, Alarm circuit, all wiring.
  - Stability of Transformer (Short circuit test).
  - GIS Tests (gas leakage and due point).
  - Final Trip Tests, End to End Test & Closed Loop Test.
  - Metering Devices testing (Ammeter, Voltmeter, KW, KVAR, KWH & KVARH).
  - Functional check for:
    - Relay, Control, LCC and AVC Panels.
    - Buchholz relay for main tank & OLTC (On load tap changer) by hand operation.
    - Check of Oil & winding Temperature's indicators.
    - Check of indication of Oil level for main tank & OLTC.
    - Operation Test of cooler (check of the rotation, smoothly running).
    - Operation Test of OLTC (steps up & step down).