

Holds a B. Sc. in Electrical Power & Machines Engineering and has over 26 years hands-on experience working in protection, testing, commissioning, design and operation of Talkha Power Plant.

## PERSONAL DATA

Nationality : Egyptian  
Birth Date : 10/12/1962  
Gender : Male  
Residence : Talkha

## EDUCATION

: B. Sc. in Electrical Power & Machines Engineering, Mansoura University, 1986

## LANGUAGES

Arabic : Native Language  
English : Very Good

## COMPUTER SKILLS

: Windows, MS Office, Internet

## TRAINING COURSES AND CERTIFICATIONS

: Protection Relays G.E. UR (MIFII, T60, T35, L90) training (operation and maintenance, ALSTOM/INITEC – Talkha, Aug. 2007.  
: Electrical Maintenance course, SIEMENS – Frankfurt, Germany, Jan. 2006.  
: Managerial and Leadership Skills Development, EDEPC – Talkha, Jan. 2005.

## CHRONOLOGICAL EXPERIENCE RECORD

**Dates** : From Mar. 1989 till now  
**Employer** : Middle Delta Electricity Production Co.  
**Project** : Talkha Power Plant – GIS Substation (4x125 MVA – 220/66/11KV)  
**Job Description** :

- Protection Department Manager:
  - Plan, organize, direct, control and evaluate the activities and operations of department.
  - Assign, co-ordinate and review the technical work of the department.

- Participate directly in the design, development and inspection of technical projects.
- Ensure standards for safe working conditions are observed.
- Train or arrange for training of engineers and technicians.
- Requisition supplies and test equipments.
- Commissioning Engineer:
  - New Talkha 750MW Combined Cycle Protection equipments, 2 main transformers and 2 auxiliary transformers.
  - New transformer (125 MVA – 220/66KV) Protection equipments and control circuits.
  - New auxiliary transformer (25 MVA – 66/6.3KV) Protection equipments and control circuits.
  - Disassembly and reassembly of 6.3KV switchyard.
  - Supervise, co-ordinate and schedule the activities of workers who install, repair and maintain electrical wiring and control devices, power systems.
  - Supervise and inspect the installation, modification, testing and operation of electrical systems and equipments.
  - Supervise assembly of panel-board and switchboard cabinets and installation of bus bars used to carry heavy electrical current.
  - Supervise wiring electrical connections for switchboards and panel-boards.
- Protection & Testing Engineer:
  - Investigate electrical failures.
  - Test all "General Electric" static protection equipments.
  - Install and test "General Electric" digital protection equipments such as L90, T60 and T35.
  - Working with primary injection device to measure transformer ratio.
  - Detect earthing on DC current systems with earthing detector device.
  - Install and programming of digital recorders devices.
  - Install and modify protection devices.
  - Test mechanical protection devices on transformers.
  - Measure earthing resistance for equipments and substation.
  - Measure battery resistance.
  - Bus bar protection and circuit breaker failure test.
  - Familiar with "Siemens" protection devices such as 7UT, 7SJ.
  - All power transformer tests such as  $\tan \delta$ , DC resistance.
  - Circuit breaker contacts DC resistance test and circuit breaker timing test.
  - Bus bar protection stability test and adjustment of its auxiliary current transformer setting.
  - Stability test for transformer differ. Protection.
  - Restricted earth fault stability test.
  - Complete test and maintenance reports.
- Operation Engineer:
  - Monitor and operate switchboards and auxiliary equipment in switchyard.
  - Monitor and visually inspect station instruments, meters and alarms to ensure transmission voltages and line loadings are within prescribed limits and to detect equipment failure, line disturbances and outages.
  - Complete and maintain station records, logs and reports.

- Design Engineer:
  - Design control circuits for circuit breakers, isolators and its interlocks.
  - Design and execute transformer control circuits and install its protection equipments.