

Holds a B. Sc. in Electrical Power Engineering and has about 20 years hands-on experience working as Protection Engineer with background in design and good knowledge in protective relays testing & troubleshooting and also in power system.

## **PERSONAL DATA**

Nationality : Egyptian  
Birth Date : 04/01/1964  
Gender : Male  
Marital Status : Married  
Residence : Gharbia

## **EDUCATION**

: B. Sc. in Electrical Power Engineering, Mansoura University, 1987

## **LANGUAGES**

Arabic : Native Language  
English : Good

## **COMPUTER SKILLS**

: Windows, MS Office, Internet

## **TRAINING COURSES AND CERTIFICATIONS**

: Training on protective relay testing by ALSTOM – UK.

## **CHRONOLOGICAL EXPERIENCE RECORD**

**Dates** : From 2007 till now  
**Employer** : EETC  
**Job title** : Protection Engineer

**Dates** : From 1991 till 2007  
**Employer** : SEC – WR – KSA  
**Project** : Taif  
**Job title** : Head of protection section

- Field of experience** :
- Supervised assembly and erection to completion of outdoor and indoor 220/66/11KV equipments, control and protection systems.
  - Testing and commissioning of HV equipments like CT, VT, CB and DS.
  - Detailed work on system interface schematics. Design of local and remote control of system. Detailed design on protection schemes. Local and remote indications, alarms and commands interfacing experience. Experience in working on energized substations.
  - Testing and commissioning of substation protective relays like O/C relays (SPAJ140/ABB, KCGG142/ALSTOM, 7SJ52/SIEMENS, etc.), BB DIFF Relay 7SS522/23 4.6 VER. MICOMP632, DTP RELAY distance relays (REL316/ABB, REL531/ABB, 7SA511/SIEMENS, 7SA513/SIEMENS, 7SA522/SIEMENS and MICROMOHO/ALSTOM, MICOMP442/AREVA), diff. 7UT61/SIEMENS, MFAC/ALSTOM, 7SD522/SIEMENS Thermal over load relays, trip circuit supervision relays, auto reclosure relays, operation of switchgears.
  - Stability test of transformer differential schemes, bus bar differential schemes, cable differential schemes, 1 and ½ bus bar arrangement schemes, single and double bus bar schemes arrangement.
  - Design and testing of interlocking schemes, control and alarm schemes, synchronizing schemes, voltage regulating schemes, bus bar schemes and breaker failure schemes.
  - Operating experience of different types of testing and calibrating equipments like primary injection ODEN/programma, breaker analyzer TM1600/programma, secondary injection SVERKER 760/programma, distance relay testing set FREJA300/programma, high AC and DC injection set CPC100/Omicron injection set.
  - Experience in developing test protocols, project schedules.
  - Fault recorder Hathaway IDM5 commissioning in 380/110KV substation.
  - Esign review for Kafr El-Zayat S/S 500/220KV.
  - Setting calculation for protection relays.
  - Testing and commissioning ABB relays red670, ref615 & ret615.

**Further skills & qualifications:**

- Good experience in testing and commissioning of power system protection relays and control system.
- Expert in troubleshooting in protection and control schemes, troubleshooting in operating equipments and devices.
- Skill in operation of static and digital relays. Human man interface knowledge to communicate to relays by manual and computer operated software methods to change the operating settings as per system requirements.
- Experience in calculating and implementing the settings of distance relays O/C relays and differential relays.
- Design review of all protection schemes 380/110/33/11KV system.