

Holds a B. Sc. in Electrical Communication & Electronics Engineering and has about 7 years hands-on experience in protective relays testing, design of control and protection schemes and troubleshooting in power system high voltage equipment installation and testing.

## PERSONAL DATA

Nationality : Egyptian  
Birth Date : 02/01/1978  
Gender : Male  
Marital Status : Married  
Residence : Ismailia

## EDUCATION

: B. Sc. in Electrical Communication & Electronics Engineering, Cairo University, 2003

## LANGUAGES

Arabic : Native Language  
English : Excellent

## COMPUTER SKILLS

: Windows, MS Office, Internet

## TRAINING COURSES AND CERTIFICATIONS

: P1 Course (instrument transformer and power measurement) in Network Training Center, 2007.  
: CCS Course (substation control circuit), 2008.

## CHRONOLOGICAL EXPERIENCE RECORD

**Dates** : From Jan. 2010 till now  
**Employer** : Bemco Services Company – KSA  
**Projects** :

- REINFORCEMENT OF KHALIDIYA/HABUNA S/S 132/33/13.8KV, HABUNA/KHALIDIYA S/S 132/33/13.8KV AT NAJRAN AREA / RENTAL TO ISCOSA (6 months and till now):
  - Testing & Commissioning Engineer MODIFICATION EXISTING SCHEME FOR BUSBAR AND BREAKER FAIL PROTECTION. TESTING PROTECTION RELAY AS SPAU AVR RELAY. TESTING A/R RELAY TYPE REXA103.

- AL-QURAYYAT SUBSTATION 132/33KV, AL-QURAYYAT / RENTAL TO SIEMENS (1 year):
  - Testing & Commissioning Engineer (DIFF RELAY 7UT613, 7UT612 O/C 7SJ61 RELAY, DOC RELAY 7SJ62, SYNCKRO CHECK RELAY 7VK610, AUX.RELAY MVAX31, 21, 11 L/O RELAY SELF RESET, HAND RESET, AVR TAPCON 260, BAY CONTROL UNIT (6MD641), PROTECTION RELAY WITH CONTROL, PUNCH LIST (RENTAL 2 MONTH), 132KV POWER METER , 33KV POWER METER, SCHEME AND FUNCTION TEST.
- AL-NAMAS 132/33KV SUBSTATION, ABHA - RENTAL TO ISCOA (7 months):
  - T&C Engineer for BACKUP RELAYS such as 7SJ600, 602, SYNCHRO CHECK RELAY 7SJ, AUX.RELAYS, SCHEME & FUNCTION, FINAL SETTING BACKUP RELAY, TRANSFORMER STABILITY TEST, BUSBAR STABILITY (BI CONNECTION).
- PRINCESS NOURA UNIVERSITY, RIYADH - RENTAL TO VISION (3,5 months):
  - Operation Engineer.
- AL-TWALL SUBSTATION 110/13.8KV, JAZAN (1 month):
  - TEST O/C RELAY 7SJ61.
- HITTEN SUBSTATION 132KV, AL-RIYADH CENTRAL AREA / RENTAL TO ALFANAR (3 months):
  - Testing & Commissioning Engineer for testing REL670 DISTANCE RELAY MODIFICATION EXISTING SCHEME. Testing RED670 LINE DIFF RELAY. END TO END TEST.

**Job title** : Testing & Commissioning Engineer

**Job Description** :
 

- Good experience in testing and commissioning of power system protection relays and control system.
- Experience in installation, testing and commissioning of electric works, high voltage and medium voltage switchgears.
- Expert in trouble shooting in protection and control schemes, trouble shooting 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.

**Dates** : From 2005 till Dec. 2009

**Employer** : EETC

**Job title** : Protection Engineer

**Job Description** :
 

- 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.
- Complete testing of control and power cables. AC, DC supplies circuit checks. Control, interlocking, alarm, indication and function checks.
- 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 110/33KV 25MVA and 220/66/11KV 125MVA power transformers.
- Testing and calibration of measuring instruments like voltmeters, Amp meters, power meters, frequency meters, PF meters, power recorders, energy meters and transducers.
- Testing and commissioning of substation protective relays like O/C relays (SPAJ140/ABB, KCGG142/ALSTOM, 7SJ52-600/SIEMENS, etc.), distance relays (REL316/ ABB, REL 511-100/ABB, 7SA511-7SL32/SIEMENS, 7SA513/SIEMENS, 7SA522/SIEMENS and MICROMOHO PD571/ALSTOM, MICOMP442-SEL32/AREVA), differential 7UT61-512-513/SIEMENS, MFAC/ALSTOM, KBCH120/ALSTOM, MCTI, MBCI/ALSTOM, etc.), breaker failure relays, Bus bar (MBCZ16/ALSTOM, 7SS10-13/SIEMENS).
- Thermal over load relays, trip circuit supervision relays, auto reclose relays.
- Operation of switchgears.
- Stability test of transformer differential schemes, bus bar differential schemes, cable differential schemes arrangement 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 OMICRONcmc256-6, high voltage injection set HIPOT/Hipotronics, high voltage insulation and excitation set MAGNUS/programma.
- Experience in developing test protocols, project schedules.
- Worked 5 months in Canal Training Center (CTC).

#### **Field of experience and qualifications:**

- Project BAGHDAD 6 new bays in Baghdad S/S 220/66/22KV and change transformer bay to bus coupler bay.
- Responsibilities testing of distance relay REL511, O/C REX620, auto reclose KAVR100, synchro-check relay type KAVS100, scheme check and interlock modification, BB Protection stability end to end test.
- Responsibilities testing of protection for 220, 66KV O.H.L. (distance relay, autorecluser, syncherocheck relay (KAVR, KAVS 100).
- BB protection, transformer AVR relay, control scheme, transformer mechanical protection & control scheme CT, VT testing transducers and metering testing and transformer stability test.
- Responsibilities testing of distance relay7SA511, REL511, diff. relay types.
- Responsibilities testing of 11 substations in North Sinai 220/66/22/11KV.
- Good experience in testing and commissioning of power system protection relays and control system.
- Experience in installation, testing and commissioning of electric works, high voltage and medium voltage switchgears.

- Expert in troubleshooting in protection and control schemes, troubleshooting in operating equipments and devices.
- Skills 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.