

Holds a B. Sc. in Electrical Power Engineering and has more than 23 years professional experience in the field of HV Substations 500KV, 220KV, 132KV, 110KV, 66KV and 11KV.

## PERSONAL DATA

Nationality : Egyptian  
Birth Date : 22/05/1959  
Gender : Male  
Marital Status : Married  
Residence : Giza, Cairo

## EDUCATION

: B. Sc. in Electrical Power Engineering, Zagazig University, 1983

## LANGUAGES

Arabic : Native Language  
English : Very Good

## COMPUTER SKILLS

: Windows, MS Office, Internet

## CHRONOLOGICAL EXPERIENCE RECORD

**Dates** : From Jun. 2007 till now  
**Employer** : AREVA Egypt – T&D  
**Job title** : Senior Supervisor Design Review Engineer  
**Job Description** :

- Secondary Design Review for all protection system & control system (interlock, alarm systems, interface & Scada system).
- Review all the setting calculation for protection of new S/S project.
- Supervisor, inspection & testing the control & protection panels in the factory.
- Inspection all S/S FAT for switchgear out door or GIS, DC & AC systems, etc.).

**Dates** : From Jun. 2005 till Jun. 2007  
**Employer** : AREVA Egypt – T&D  
**Job title** : Senior Commissioning Coordinator  
**Job Description** :

- Secondary Design Review for all protection system & control system (interlock, alarm systems, interface & Scada system).

- Supervisor, inspection & testing the control & protection panels in the factory power activity.
- Review the setting calculation for protection.
- Over all commissioning for new S/S testing protection & control system.
- Troubleshooting S/S & fault analysis for new S/S after energizing.
- Preparing the commissioning final report.
- Preparing the planning of S/S energizing for all new projects.

**Dates** : From Mar. 2004 till Jun. 2005

**Employer** : Alstom Egypt – T&D

**Projects** :

- Inside Egypt:
  - Quesna 220/66/11KV
  - Fayom 220/66/11KV
  - Sidi Salem 220/66/11KV
  - EDF Suez Gulf & Port Said Power Plant 220KV GIS S/S
  - Kom Hamada 66/11KV
  - Nubaria 500
  - Bahteem 220/66/11KV
- Out of Egypt:
  - EMCC (Emirates Cement Factory 132/11KV GIS S/S (U.A.E.)
  - Aleppo A 230/66/20KV GIS S/S (Syria)
  - Baramkeh 230/66/20KV GIS S/S (Syria)
  - Qatif 115KV S/S (Aramco, KSA)
  - Ralezani 220KV S/S (Algeria)

**Job title** : Commissioning Coordinator

**Job Description** :

- Design Review.
- Review all schematic drawing for substations before starting the commissioning.
- Preparing the commissioning time schedule & arrange commissioning manpower activity.
- Preparing all commissioning test sheets.
- Proceed all the commissioning of S/S up to energizing.
- Make all site modification if necessary.
- Review protection scheme and control system scheme.
- Review all relays setting & setting calculation.
- Fully testing of switchgear, site commissioning for all switchboard, protection relays and interface control circuit.
- All type of primary and secondary testing, adaptation work, energizing S/S.

**Dates** : From Mar. 2002 till Mar. 2004

**Employer** : Alstom Egypt

**Projects** :

- Karmoz 220/66/11KV S/S Alexandria
- Cairo 500, Cairo East & Mansoura 220KV S/S
- Ayoun Moussa S/S 500/220KV GIS S/S Extension

**Job title** : Senior Commissioning Manager

**Job Description** :

- Over all commissioning for substations.
- Preparing the commissioning time schedule & arrange commissioning manpower activity.
- Preparing all commissioning test sheets.

- Fully testing of switchgear (CT, VT, CB, Isolator, site commissioning for protection relays and control circuit, alarms, Scada system).
- All type of primary and secondary testing, adaptation work, put substation into service.
- Adding Capacitor bank adaptation work supervision, interface with existing S/S system.

**Dates** : From Mar. 2000 till Mar. 2002  
**Employer** : Cogelex  
**Projects** :

- Egyptian Cement Factory 220KV
- Ayoun Moussa Power Plant 500/220KV GIS S/S

**Job title** : Commissioning Manager  
**Job Description** :

- Over all commissioning for substations.
- Preparing the commissioning time schedule & arrange commissioning manpower activity.
- Preparing all commissioning test sheets.
- Fully testing of switchgear (CT, VT, CB, Isolator, site commissioning for protection relays and control circuit, alarms, Scada system).
- All type of primary and secondary testing, adaptation work, put substation into service.
- Adding Capacitor bank adaptation work supervision, interface with existing S/S system.

**Dates** : From Aug. 1998 till Mar. 2000  
**Employer** : Cogelex  
**Projects** :

- Wadi El-Naqra 220/66/11KV S/S
- Cairo East Power Plant 500KV GIS S/S

**Job title** : Senior Commissioning Manager  
**Job Description** :

- Over all commissioning for substations.
- Preparing the commissioning time schedule & arrange commissioning manpower activity.
- Preparing all commissioning test sheets.
- Fully testing of switchgear (CT, VT, CB, Isolator, site commissioning for protection relays and control circuit, alarms, Scada system).
- All type of primary and secondary testing, adaptation work, put substation into service.
- Adding Capacitor bank adaptation work supervision, interface with existing S/S system.

**Dates** : From Dec. 1996 till Aug. 1998  
**Employer** : Elgihaz Company (KSA)  
**Project** :

- El-Gouf Power Plant GIS S/S (KSA)
- Geda Zone 13.8KV S/S (KSA)

**Job title** : Commissioning Engineer  
**Job Description** :

- Preparing all commissioning test sheets.
- Fully testing of switchgear (CT, VT, CB, Isolator, site commissioning for protection relays and control circuit, alarms, Scada system).
- All type of primary B.B. Stability, Transformer Stability and secondary testing, adaptation work, energizing substation.

**Dates** : From Dec. 1993 till Dec. 1996  
**Employer** : ABB H.V. Egypt  
**Projects** :

- Naga Hamadi 132KV S/S (Egyptloun Company)
- New Suez 500/220KV

**Job title** : Commissioning Engineer  
**Job Description** :

- Fully testing of switchgear (CT, VT, CB, Isolator, site commissioning for protection relays and control circuit, alarms, Scada system).
- All type of primary B.B. Stability, Transformer Stability and secondary testing, adaptation work, energizing substation.

**Dates** : From Jul. 1987 till Dec. 1993  
**Employer** : Egyptian Electricity Authority  
**Project** : Cairo 500KV - 500/220/11KV S/S  
**Job title** : Testing Engineer  
**Job Description** :

- Over all protection routine test, fault analysis & troubleshooting.
- Testing the protection & control of OHTL 500, 220 & 11KV.
- Distance protection, O.C. D.E.F. protection, B.B. protection, etc.
- Testing the protection & control of transformer 500/220/11KV.
- Differential protection, O.C. protection, etc.
- Fault analysis.
- Working in the project of rehabilitation of protection, control system CT, VT, CB 500 & 220KV.

**Field of experience, qualifications & technical skills:**

- Secondary Design Review for all protection system & control system (interlock, alarm systems, interface & Scada system).
- Review the setting calculation for protection.
- Supervisor, inspection & testing the control & protection panels in the factory.
- Preparing commissioning time schedule & arrange the commissioning manpower activity.
- Over all commissioning for new S/S (testing protection & control system).
- Troubleshooting S/S & fault analysis for new S/S after energizing.
- Preparing the commissioning final report.
- Preparing the planning of S/S energizing for all new projects.
- Complete commissioning for substations (fully testing of switchgear, site commissioning of all switchboard, protection relays, metering and interface control circuit also low voltage AC & DC distribution board, battery charger & batteries).
- Review all schematic drawing for substations.
- Make all site modification if necessary.
- Review design protection scheme, control & interlock circuit.
- Familiar with different types of protection scheme.
- Design adaptation work to transfer all data (signal & commands) to RTU.
- Preparation of site test sheets and test procedure.
- Review relays setting and review setting calculation.
- Preparation of commissioning schedule.

- Familiar with different type of modern numerical protection relays.
- Capability to carry out investigation work on protection system prepares protection schemes.
- Knowledge to analyze abnormalities and recommend preventive action related to protection and control system.
- Inspection of protection and metering equipment at site and factory.
- Familiar with the following types of relays:
  - All type of micom relays such as P120, P121, P126, P127, P143, P442, P444, P632, P122, P139, P921, P821, P741, P742, etc. with software Micom.
  - All last type of Alstom relays before micom like k-series, KCEG.xx, KBCH, KVAR, KVGC, MBCZ, MCGG, optmho, etc.
  - Siemens relays like 7SS522, 7SA511, 7SA513, 7UT521, 7SJ600, 7SA6XX, 7UT612, 7VH with software DIGSI.
  - ABB relays like Spam, Spaj, REJ XX, REU XX, REL 311.
  - Other type of relays like SEL 311, SEL 321.
- Familiar with the following types of testing equipment:
  - Secondary injection:
    - Omicron
    - Freja (S21 and S300)
    - Isa (DRTS)
    - Sverker 750
  - Primary injection (programma type):
    - Oden
    - TM 1600 (breaker analyzer)
    - Omicrommeter
    - Magnus (voltage tester)
    - Megger