

Holds a B. Sc. in Electrical Power & Machines Engineering and has nearly 9 years experience in testing and commissioning of high, medium and low voltage electrical substation.

## PERSONAL DATA

Nationality : Egyptian  
Birth Date : 12/09/1984  
Gender : Male  
Marital Status : Married  
Residence : El-Behira

## EDUCATION

: B. Sc. in Electrical Power & Machines Engineering, El-Minia University, 2006

## LANGUAGES

Arabic : Native Language  
English : Fluent  
French : Basics

## COMPUTER SKILLS

: Windows, MS Office, Internet

## TRAINING COURSES AND CERTIFICATIONS

- : Protection training courses held in EGYPTIAN ELECTRICITY TRANSMISSION COMPANY, NETWORK TRAINING CENTER (CAIRO SOUTH, HELWAN):
  - Electrical control circuit and diagrams for substation.
  - Protection Fundamentals.
  - METERING Fundamentals.
  - Measuring and protection instrument devices.
  - Course in transformer maintenance.
  - Course in distance protection and in its schemes.
  - Course in feeder protection.
  - Course in Bus Bar protection.
- : EARTHING COURSE IN CULTURE CENTER, EGYPT.
- : Siemens protection (siprotec 4 & siprotec 5) in GERMANY (Nov. 2013).
- : Trainings at:
  - EL EZZ STEEL Company in Sadat industrial (Aug. 2003).

- ARCO STEEL Company in Sadat industrial (Aug. 2004).
- EL-TAHRIR BADR substation 220/66/11KV.

## CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : Since 9 years
- Employer** : Egyptian Electricity Transmission Company (EETC)
- Project** : Nubaria Elec. Power Station in line feeder protection (500KV-220KV)
- Job title** : Protection & Testing Engineer in Alex & West Delta Electricity Zone, West Delta Sector for protection
- Job Description** :
- One of Protection and Testing Team in EL-TAHRIR BADR MANAGEMENT.
  - One of Protection and Testing Team in El Sadat (Bashi steel station 220KV).
- Field of experience** :
- Particularly, experience in testing digital protection relays like distance, differential, etc. of different manufacturers (Siemens, ABB, Alstom, GE).
  - Able to analysis maintenance problems with substation.
  - Read and analysis variable schematics for protection and control of electrical systems (H.V, M.V & L.V).
  - RELAYS SOFTWARE APPLICATIONS SKILLS:
    - CAP (for ABB product).
    - MICOM S1 (for AREVA T&D products).
    - EnerVista (for GE MULTILIN products).
    - SFT2841 (for Schneider products).
    - DEGSI 4 (for SIEMENS products).
    - In addition to test sets softwares.
  - DIGSI 4 – Basic & Advanced Course – Protection and Control Function.
  - Sigr4 4.3 (Fault analyses program developed by Siemens Company).
  - Cap 501 & Cap 504 & Red670 & Ret670 & REL316 ALL version.
  - Dealing with Various Types of Primary & Secondary Injection & Many Test Equipment like (MEGGER, OMICRON 356, ISA ART/ 3 and FRANCE LOG, SEVERKER 750).
  - All tests on power transformers, CTs, VTs, C.Bs and bus bar in (500KV, 220KV, 16.5KV and 6KV). These Tests like:
    - Tie, auxiliaries and main transformers commissioning tests (Tan  $\Delta$ test, insulation (MEGGER) test, DC resistance).
    - Transformers mechanical protection relays tests (Buchhlez relay, pressure relief device, rapid pressure device).
    - CB's tests (timing, DC resistance, high voltage test for 500KV CB'S).
    - CT'S tests (turns ratio, magnetizing test, polarity test).
    - VT's tests (turns ratio, insulation (megger) test).
    - Disconnecting switches tests (timing and contact resistance test).
  - (C-A 6460.), (MEGGER DET) Earth resistance tester.
  - (CT – 6500.) (VANGURD) Circuit breaker Analyzer.
  - (CTT – X2) current transformer test.
  - JOB RESPONSIBILITIES:
    - Performing protection and control works in the stations and substations.

- Leader of a group of engineers and technicians.
- Organization of daily work and completion of various testing station.
- This works summarized in:
  - Protection section the Modern digital and numerical relays protection such as:
    - ABB relays (REL316\*4, REL531 and REB500) for 220KV OHTL.
    - SIEMENS relays (all family of relays).
    - Micom family relays (P741-P742, P437-P442-P126-LFAA, P632-P141 and P143).
    - 500KV BUSBAR, OHTL, 220KV BUSBAR.
    - GE Relays.
  - Participating in Studying, Analyses, Test and Make Specification for Electrical Components in my branch's:
    - 500KV switchyard control center.
    - 220KV switchyard control center.
  - All tests on power transformers, CTs, VTs, C.Bs and bus bar in (500KV, 220KV, 11KV).
- Engineering Skills:
  - Programmable logic controller (plc) step 5.
  - Programmable logic controller (plc) step 7 (S7 300 & S7 400).
  - Matlab software.
  - (Fortran - Basic).
  - AutoCAD (2007-2008-2010-2016).