

**103783-ELE-12PT-E-2009**  
**Senior Testing & Protection Engineer**

Holds a B. Sc. in Electrical Power & Machines Engineering and has over 8 years hands-on experience working in testing and protection.

## PERSONAL DATA

Nationality : Egyptian  
Birth Date : 03/07/1987  
Gender : Male  
Marital Status : Married  
Residence : Giza, Cairo

## EDUCATION

: B. Sc. in Electrical Power & Machines Engineering, Helwan University, 2009

## LANGUAGES

Arabic : Native Language  
English : Very Good

## COMPUTER SKILLS

: Windows, MS Office (Word, Excel, Power Point), Internet  
: Matlab

## TRAINING COURSES AND CERTIFICATIONS

- : MBA (Master of Business Administration) (in progress).
- : PMP (Project Management Professional) (in progress).
- : PLC (LEVEL 1).
- : AUTOCAD (2D).
- : ICDL (International Computer Driving License) Certification.
- : Zenon V7.11 Energy basic Edition (with IEC 61850 Protocol).
- : Trainings at:
  - Yemen Company for Ghee and Soap Industry (Taez – Yemen).
  - EGEMAC for the Electrical Industries (Matria – Egypt).
  - El Nasr Transformers and Electrical Product Company – EL MACO (Matria – Egypt).
  - Military Factory 54 (El Maadi – Egypt).
  - South Cairo Electricity Distribution Company.
  - North Cairo Electricity Distribution Company.

- : Certifications which I got during my work:
  - From SAUDI ARAMCO 2015 – Shaybah NGL Power Generation Project: Certification of Appreciation from Mohamed O. Bahamdan (Sr. Projects Manager) Shaybah Power Generation Division.
  - From SAUDI ARAMCO 2013 – Shaybah NGL Power Generation Project: Certification of Appreciation about 115KV GIS from Mohamed O. Bahamdan (Sr. Projects Manager) Shaybah Power Generation Division.
  - From SAMSUNG Engineering 2014 – Shaybah NGL Power Generation Project: Certification of Appreciation from Samsung Engineering Division.
  - From SAMSUNG Engineering 2013 – Shaybah NGL Power Generation Project: Certification of Appreciation from Samsung Safety.

## CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From May 2016 till now
- Employer** : SIEMENS
- Projects** :
  - Beni Suef Combined Cycle Power Plant 4800MW
  - East Banha 500/220KV
- Job title** : Senior Testing & Commissioning Engineer (Protection Engineer)
- Job Description** : Scheme Checking:
  - Generator Protection Panels (GE turbine frame 7EA generator protection panels, experienced with G60, T60, C60 and M3425A relays also commissioned GLAC and GNAC CT's and VT's) and the interlocking between high voltage, switchgear and TCP (Turbine Control Panel).
  - Generator Protection Panels (Siemens).
  - Power Transformer and Reactor Protection.
  - Under Ground Cable Protection.
  - Over Head Line Protection.
  - Bus bar Protection (Low & High Impedance).
  - Pole Discrepancy.
  - Circuit Breaker Failure Protection.
  - Circuit Breaker Synchronizing Protection.
  - 380, 230, 132 and 110KV GIS and Switch Yard (HYUNDAI, HICO, ABB, Siemens, HITACHI).
  - 33, 13.8, 4.16KV Switchgear and the 4.16KV MCC.
  - ABTS (Automatic Bus Transfer Switch).
  - Load Shedding System.
  - Circuit Breaker Auto Reclose System.
- Dates** : From Jan. 2010 till Apr. 2016
- Employer** : Alfancar Co.
- Projects** :
  - Kanddrah S/S – Jeddah (380 / 110 / 13.8KV)
  - ICY-5 (Industrial City – 5) S/S – Jeddah (110 / 13.8KV)
  - Shamiah – 1 – Makkah (110 / 13.8KV)
  - Hail – 1 PP (Gas Generation Power Plant) – Hail
  - SATORP (Saudi ARAMCO Total Refinery Petrochemical), Al Jubail (230 / 132 / 13.8 / 4.16KV)
  - Ras El Khair S/S (13.8 / 4.16KV)
  - King Abdullah Financial District (KAFFD) Project – Riyadh (132 / 13.8KV)

- Al Jouf S/S – Skakah (380 / 33KV)
- Haramain High speed Railway Station 1 – Makkah (380 /110 / 13.8KV)
- Al Omran S/S – Al Houfof (380 / 115 / 13.8KV)
- Shaybah NGL Power Generation Project (230 / 115 / 13.8 / 4.16 / 0.480KV)
- Al Nada S/S – Al Houfof (115 / 13.8KV)
- IBN SINA 230 / 34.5KV S/S
- New Al-Uqair 380 / 115 / 13.8KV S/S

Some of the Substations are GIS (Gas Insulation Switchgear or System) and others are Switchyard Outdoor Substations.

**Job title** : Senior Team Leader Electrical Testing & Commissioning Engineer (Protection Engineer)

**Dates** : From Aug. 2009 till Jan. 2010

**Employer** : Power Tec Co. (Construction Dept.)

**Projects** :

- Al-Nakheel village in Zahra Nasr City
- 22KV switchgears in 10th of Ramadan

**Job title** : Civil & Electrical Site Engineer

**Job Description** :

- Al-Nakheel village in Zahra Nasr City and Al-Rehab, Implementation of Electrical Works for the buildings and villas.
- 22KV Switchgears, work in construction works as civil works (Drilling, building) and in Electrical works as power cables extension, instrumentation works of the panels of Switchgears.

**Software's that are used:**

- EnerVista Launchpad relay software.
- Micom studio, Agile Alstom relay software.
- ABB relay software (PCM, CAP).
- Degsi Siemens relay software.
- SEL relay software (AcSELeator QuickSet).
- SEL relay software (AcSELeator Architect).
- IPScom M-3400 Series.
- Omicron software.
- FREJA win software.
- AutoCAD Electrical.
- Dialux for Interior or Exterior Lighting Design.
- Zenon V7.11 Energy Edition (IEC 61850).

**Field of experience** :

- Power Service:
  - High and Medium Voltage CB Testing:
    - CB Timing Test.
    - CB Contact Resistance Test.
    - SF6 Purity Test.
    - SF6 Dew Point Test.
    - CB High Voltage Test (up to 13.8KV).
  - CT and VT Test.
  - Primary and Stability Test.
- Relay Checking:
  - Siemens (7SJ, 7VK, 7RW, ARGUS, 7UT, 7SA, 7SD, 7SS).
  - SEL (451, 421, 411L, 311L, 487E, 487B, 587Z, 351, 751A, 787,

- 710).
- MICOM (P543, P546, P645, P44x, MFAC, P123, KAVS).
- ABB (REF615, REF542 PLUS, REC6xx, RED6xx, REL6xx, REB500, SPAJ, REX521).
- GE (G60, T60, C60, L90).
- Beckwith (M3425A).
- Power Transformer On Load Tap Changer Relay (MR TAPCON, SPAU).
- Good knowledge about whole EHV GIS and Switchgear testing types such as:
  - Current Transformer Testing, Voltage transformer testing, Contact resistance testing, Circuit breaker testing (Timing test and Insulation Test) and 10KV test for Earth Switch.
  - GIS and Switchgear current Primary injection and Bus bar stability test.
  - SF6 Gas test, SF6 Leakage Test and SF6 Gas Gauge and test.
  - Different types of Auxiliaries, Contactors, Timers and Annunciators.
  - High pot test for Switchgear up to 33KV Switchgear.
- Generator Protection Panels (GE turbine frame 7EA generator protection panels, experienced with G60, T60, C60 and M3425A relays also commissioned GLAC and GNAC CT's and VT's).
- SCADA System:
  - In Shaybah Project:
    - Worked at PSA System (Power System Automation) and make electrical Simulation for signals which were included in PSA and also controlling Power System network Elements (Circuit Breakers and Disconnectors) using IEC61850 Protocol.
    - Set programming for Zenon Automation program version 7.10 power system supervision and power system control.
- Co-ordination skills:
  - Preparation of Test plan, schedules, test reports.
  - Co-ordination with consultants, vendors, equipment manufacturer.