

Holds a B. Sc. in Electrical Power Engineering and has over 5 years hands-on experience working as Sr. Testing & Commissioning Engineer / HV Secondary (Protection) Design Engineer.

## PERSONAL DATA

Nationality : Egyptian  
Birth Date : 17/11/1990  
Gender : Male  
Marital Status : Single  
Residence : Helwan, Cairo

## EDUCATION

: B. Sc. in Electrical Power Engineering, Helwan University, 2013

## LANGUAGES

Arabic : Native Language  
English : Very Good

## COMPUTER SKILLS

: Windows, MS Office (Word, Excel, Power Point), Internet  
: AutoCAD  
: MATLAB  
: ETAP  
: ATP  
: Microstation  
: Labview

## TRAINING COURSES AND CERTIFICATIONS

: Studying Project Management Professional (PMP).  
: Substation.  
: Protection for MV & HV substation course:

- Transformer protection.
- Transmission line protection.
- Switch gear protection.

  
: Automatic control (Classic control) course: Design of Control circuits.  
: Programmable Logic Controllers (PLC) course: Design of Control circuits by PLC.

- : Drives course:
  - AC Drives.
  - DC Drives.
- : Distribution course: Design of LV system.
- : Summer trainings at:
  - Iron and Steel Plant (1 month in 2010).
  - National Cement Company (1 month in 2011).
  - Helwan Fertilizers Company (2011).
  - North Cairo Electricity Transmission Company (2 weeks in 2012).
  - Training at LG Company (2012).
  - 220/66/11KV GIS Substation at South Helwan (2013).

## CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From Feb. 2020 till now
- Employer** : APC (Advanced Power Company)
- Project** : CAIRO WEST SUPERCRITICAL POWER STATION 1x650MW 500/220KV
- Job title** : Senior Testing & Commissioning Engineer
- Job Description** :
- Make coordination with owner, consultant and main contractor to schedule activities.
  - Discuss with main contractor (Design department) to take last version of approved drawings.
  - Discuss with main contractor (Design department) about new modifications in panels at site.
  - Discuss with main contractor about defective devices in panels to make replacement.
  - Discuss with main contractor to add new required devices in panels.
  - Discuss with main contractor to provide work tools (technician tools, wires, lugs, ...etc.).
  - EHV CT test.
  - EHV VT test.
  - Scheme check for 500KV EHV GIS LCC (HYUNDAI) Panels (Transformer Feeder, Transmission Line Feeder, TIE IN Line Feeder and GIB).
  - Scheme check for 500KV EHV Protection Panels (Transformer Feeder, Transmission Line Feeder, TIE IN Line Feeder, GIB and Bus Bar).
  - Scheme check for 500KV EHV Control Panels (Transformer Feeder, Transmission Line Feeder, TIE IN Line Feeder, GIB and Synchronizing).

- Dates** : From Feb. 2016 till Feb. 2020
- Employer** : Gihaz Energy Services Company (GeSCo) – KSA
- Projects** :
- MIC S/S 380/110/33/13.8KV
  - MAKKAH HOUSING S/S 380/110/13.8KV
  - AL-KHALIDIA S/S 110/13.8KV
  - HADA S/S 110/13.8KV
  - HERAA S/S 110/13.8KV
  - MISFALAH-4 S/S 110/13.8KV
  - SAKAKA-PV S/S 33/132KV
  - AL-NASEEM S/S 110/13.8KV

- Job title** : Sr. Testing & Commissioning Engineer
- Job Description** :
- Make coordination with owner, consultant and main contractor to schedule activities.
  - Discuss with main contractor (Design department) to take last version of approved drawings.
  - Discuss with main contractor (Design department) about new modifications in panels at site.
  - Discuss with Saudi Electricity Company Engineers (Protection department) about new modifications in panels at site to take approval.
  - Discuss with main contractor about defective devices in panels to make replacement.
  - Discuss with main contractor to add new required devices in panels.
  - Discuss with main contractor to provide work tools (technician tools, wires, lugs, ...etc.).
  - Discuss with higher management to provide required test equipments.
  - Discuss with SAS (Substation Automation System) Engineer to prepare HV & MV logic diagram and alarms.
  - Scheme check for 110KV & 132KV HV GIS LCC (HYOSUNG & HYUNDAI) panels (bus coupler, bus section, line and transformer).
  - Scheme check for 110KV & 132KV high voltage AIS panels.
  - Scheme check for 110KV & 132KV HV protection panels (HV Bus Bar, MV Bus Bar, capacitor bank, transformer, line, bus section, bus coupler, under voltage and under frequency).
  - Scheme check for 110KV & 132KV HV control panels (ACCS, AVR and ABTS).
  - Scheme check for EHV & HV Transformer (SIEMENS, HYOSUNG and BEST) panels (LOCAL CONTROL PANEL & MOTOR DRIVE UNIT).
  - Check all mechanical alarms&trips for EHV & HV Power Transformer.
  - Scheme check for 380KV EHV protection panels (Bus Bar, GIB, line, transformer, pole discrepancy, Tee protection, auto recloser, trip circuit supervision and breaker failure).
  - Scheme check for 13.8KV & 33KV MV switch gear (ALFANAR, ABB and SIEMENS) panels.
  - Scheme check for DCDB & ACDB panels.
  - Testing of protection relays (over current, earth fault, under frequency, under voltage, MV high impedance Bus Bar and HV high impedance Bus Bar).
  - Open loop test with SAS Engineer.
  - Closed loop test with central unit.
  - Testing of trip test for HV & MV.
  - Contact resistance between Panels (MV & HV).
  - C.B (MV & HV) tests.
  - C.T (MV & HV) tests.
  - V.T (MV & HV) tests.
  - CT Secondary injection (MV & HV) test.
  - CT Primary injection (MV & HV) test.
  - VT Secondary injection (MV & HV) test.
  - HV & MV Bus Bar stability test.
  - HV Disconnecter Switch test.
  - HV Gas gauges test.
  - MCB, MCCB, Auxiliary relays, Contactors, Digital meters and timers

tests.

- Check all interlocks for HV GIS & MV SWG.
- MV Switch gear high voltage test.

<b>Dates</b>	:	From Feb. 2015 till Feb. 2016
<b>Employer</b>	:	Bahrawy Consultancy Group (BCG) – Egypt
<b>Projects</b>	:	<ul style="list-style-type: none"><li>• QUNFUDAH S/S 132/33KV</li><li>• AL-QUZ S/S 132/13.8KV</li><li>• KHAMIS WEST S/S 132/33/13.8KV</li><li>• KING FAISAL HOSPITAL S/S 110/13.8KV</li></ul>
<b>Job title</b>	:	HV Secondary (Protection) Design Engineer
<b>Job Description</b>	:	<ul style="list-style-type: none"><li>• Protection Design Submittals.</li><li>• Base Design Submittals:<ul style="list-style-type: none"><li>- Prepare Operational Single Line Diagram.</li><li>- Prepare Single Line Diagram with CT/VT Data.</li><li>- Prepare CT/VT Sizing Calculation.</li><li>- Prepare Protection Single Line Diagram.</li><li>- Review and revise Manufacturer schematic drawing.</li><li>- Reviewing Project PTS (Project Technical Specification).</li><li>- Prepare total substation Point List (Alarm, Fault Recorder, SOE, Scada and SAS Point List).</li><li>- Knowledge of general layout of substation.</li></ul></li><li>• Detail Design Submittals:<ul style="list-style-type: none"><li>- Prepare substation cables schedules.</li><li>- Prepare interface to MV switch gear schemes 13.8KV and 33KV.</li><li>- Prepare interface to MAIN ACBD and MAIN DCDB panels.</li><li>- Prepare interface to HV GIS schemes 110KV &amp; 132KV (transformer, line, bus coupler and bus section).</li><li>- Prepare interface to 110KV &amp; 132KV HV protection schemes (transformer, line, bus coupler, bus section, under voltage, under frequency, capacitor protection, HV Bus Bar and MV Bus Bar).</li><li>- Prepare interface to 110KV &amp; 132KV HV control schemes (ACCS, AVR and ABTS).</li><li>- Prepare interface to HV Transformer panels (LOCAL CONTROL PANEL &amp; MOTOR DRIVE UNIT).</li></ul></li></ul>