

**100471-ELE-1245DPST-E-1996**  
**Senior Protection & Service Engineer**

Holds a B. Sc. in Electrical Power & Machines Engineering and a Diploma of Electric Power System (protection). Has about 20 years of experience in the electrical system in the multiple fields like Oil and Gas, Power Plants, Manufacturing Industries, Projects, etc.

## PERSONAL DATA

Nationality : Egyptian  
Birth Date : 18/11/1972  
Gender : Male  
Marital Status : Married  
Residence : Currently Qatar

## EDUCATION

: B. Sc. in Electrical Power & Machines Engineering, Suez Canal University, 1996  
: Diploma of Electric Power System (protection), Cairo University, 2005

## LANGUAGES

Arabic : Native Language  
English : Good

## COMPUTER SKILLS

: Windows, MS Office (Word, Excel), Internet  
: Matlab 6.5  
: DIGSI4.8  
: MICOM S1 2.11  
: CAP 540, CAP 505, CAP 501, CAP531, PCM 600, REF 542 Plus Configuration tools  
: ENER VISTA 4.4  
: ATP

## TRAINING COURSES AND CERTIFICATIONS

: Power System Protection Courses at Network Training Center:

- P1: Instrument Transformers & Power Measurement.
- P2: Protection Fundamental.
- P3A: Programming Digital Meter (ENRTA-ABB).
- P4A: Bus Bar Protection.
- P6A: Digital Protection.

- P6A: Digital Protection for distance relay (MICOM P442).
  - Course in system earthing and safety grounding.
- : Management Trainings:
- Being an effective team member.
  - Procurement Management for Projects.
  - Legal and Contract Management for Projects.
  - Project Risk and Opportunity Management.
  - Project Financial and Cost Management.
  - Scope and Change Management in Projects.
  - Project Execution Tracking & Reporting.
  - Planning and Scheduling.
  - ABB Project Management Framework.
  - Project Managers Basics.
  - Safety Aspects at Site Works.
  - RM3 Project Risk Management.
  - RM1 Project Risk Management.
  - RM2 ABB Risk Review.
  - Contract Negotiation Training.
  - Project planning, analyzing and control.
  - ABB 4Q Basics for Project Managers.
  - ESI - Project Management Applications (PMA).
  - ABB certified Associate project manager.

## CHRONOLOGICAL EXPERIENCE RECORD

**Dates** : From Aug. 2009 till now  
**Employer** : Qatar ABB LLC Company  
**Job title** : Senior Protection & Service Engineer (LVS)  
**Job Description** :

- Execute the 33KV, 11KV switchgear and LV system at oil and gas companies like Shell, Qatar Gas, Qatar Petroleum and Dolphin Energy.
- Troubleshoot of all kinds of Trip Incidents, Events Analysis, Report preparations, Schematic Modifications Review & Implementations.
- And also involved in the Annual and Routine Maintenance activities of HV, MV and LV electrical equipment's.
- Manage the sites during the testing and commissioning activities.
- Give Technical support for sales Team during bidding period.

**Dates** : From Mar. 2006 till Jul. 2009  
**Employer** : BEMCO Service Company  
**Job title** : Senior Service Engineer  
**Job Description** :

- Test GE gas turbine protection panel and its auxiliary switch board.
- Test 132KV GIS substation including protection, control, LCC panel, SCADA signals And LV system (AC & DC) and handover this substation to Saudi Electrical Company (SEC) at Riyadh – KSA.
- Test a new 400KV GIS pays in Aweer P/S at Dubai – UAE.

**Dates** : From Aug. 1998 till Mar. 2006  
**Employer** : Egyptian Company for Electricity Power Transmission

**Job title** : Protection Engineer

**Job Description** :

- Test the all protection relays in the 220KV, 66KV, 11KV and 380v systems in the grid.
- Troubleshoot all kinds of Trip Incidents, Events Analysis, Report preparations, Schematic Modifications Review & Implementations.
- Install new protection relays in 220KV, 66KV and 11KV grid.
- Upgrade the protection relays in 220KV, 66KV and 11KV grid.
- Replace the air CB by SF6 66KV CB at old 66KV substations.
- Arrange testing program schedule for the protection relays in 220KV, 66KV and 11KV grid during the year.

**Dates** : From Apr. 1998 till Aug. 1998

**Employer** : Milling East Delta

**Job title** : Installation Engineer for PLC system

**Projects:**

- At DOLPHIN ENERGY (as Senior Engineer) (2017): To install, test and commission New 400 v and 690 v modules at SS24.
- AL JASSIM TOWER BUS DUCT REPLACEMENT PROJECT (as Project Engineer) (2017): Follow up the project as Project Engineer.
- KAHRAMAA MESHEREB PROJECT (as Senior Engineer) (2017): To testing restricted earth fault Relay REB611.
- At QATAR GAS (2016): To install, test and commission New two section with Existing 415v LV switch Board
- At QATAR GAS (as Senior Engineer) (2015): To install, test and commission New two section with Existing 415v LV switch Board.
- At M. Power (Mesaeid Power Plant) (as Senior Engineer) (2015): To test the protection relays REF542+ for 11KV switch gear.
- At QEWC (Qatar Electricity, Water Company) (as Senior Engineer) (2015): To install, test and commission New 415v LV switch Board.
- At QAFCO FACTORY (as Senior Engineer) (2015): To install, test and commission New 415v LV switch Board.
- At DOHALAND2 66/11KV GIS SUBSTATION WITH ABB (as SITE MANAGER) (2015):
  - To support the project manager to ensure the time, cost, quality are balanced according to the project requirements.
  - To ensure safety procedures are followed in the project.
  - To send daily report regards the project activities.
  - To coordinate with all subcontractors and update the project schedule.
- At QATALUM WITH ABB (as Senior Engineer) (2014): To relocate two modules from ARP-MCC1 switch board to ARP-MSB switch board.
- At QEWC (Ras Abo Funtas RAF – A2 Project) WITH ABB (as Senior Engineer) (2014):
  - To add two new MNS3 sections to 62BFB and 72BFB 415V switch board.
  - To modify 00BMB00 and 00BMA00 415V MNS2 switch board to add three modules.
  - To modify 00BFB00 and 00BFA00 415V MNS2 switch board to add two modules.
- At DOLPHIN (Third Party Gas interconnecting Facilities proj.) WITH

- ABB (as Senior Engineer) (2014): To add 15 modules to SS32-NS41, SS32-ES41 and SS32-NS51 switch boards.
- At QATAR STEEL WITH ABB (as Senior Engineer) (2014): To install and test two new modules in MCC-01 and MCC-02 415 V MNS switchboards.
  - At QATAR GAS (JOBG PROJECT) WITH ABB (as Senior Engineer) (2014): To install, test and commission MNS 415V Switch boards no. 56301, 56302, 56303, 56304 and 56305 and test the REF630 relays, function checks, operation checks, alarms checks, interlocks and inter trips.
  - At DOLPHIN WITH ABB (as Senior Engineer) (2013): To upgrade & install the redundancy system for 48/24V DC/DC Converters for 415V Switch boards INSUM systems.
  - At QATAR FOUNDATION WITH ABB (as Senior Engineer) (2013): To test the restricted earth fault relay and energize 8 MNS 415 V switch boards.
  - At POTABLE WATER PROJECT (QP) WITH ABB (as Senior Engineer) (2013):
    - To test and commission three MNS 415 V switch board.
    - To test REF542+ relays, function checks, operation checks, alarms checks, interlocks and inter trips.
  - At ABB LLC PP-PS 2881 (as Senior Engineer) (2012): To do engineering, technical support and review the submittals technically.
  - At QATALUM WITH ABB (as Senior Engineer) (2012):
    - To do Preventive Maintenance for 220KV GIS type ELK14/300.
    - To do Preventive Maintenance for 11KV switch gear and retest the protection relays type Micom P127, P992, P243, P122 using omicron cmc356 test Kit.
  - At QAFCO 5 WITH ABB (as Senior Engineer) (2012): To modify REF542+ for load shedding.
  - At SHELL PEARL GTL WITH ABB (as Senior Engineer) (2011/2012): To test and commission 33, 11, 3.3KV systems (REF 542+ modification, RED670 testing and completing the punch list items at phases C6, C4, C5, C8 and C3).
  - At KAHRAMAA GARAFFA SUBSTATION WITH ABB (as Senior Engineer) (2011): To test and commission 66/11/0.4KV 20 MVA MOBILE substation; testing done for (REF610, RET541, spaj141c relays), function checks, operation checks, alarms checks, interlocks and inter trips.
  - At QP MESAIEED WITH ABB (as Senior Engineer) (2010): To install two transformers 25MVA 33/11KV.
  - At NAKELAT SITE WITH ABB (as Senior Engineer) (2010): To test and commission ZS1 11KV switch gears (1- main intake, 2- SS1, 2- SS E1). Testing REF542+ relays, function checks, operation checks, alarms checks, interlocks and inter trips.
  - At QATALUM (QATAR ALUMINUM SMELTER) WITH ABB (as Senior Engineer) (2009): To test and commission MCC - 415V switch board at rectifier station 35-EL-3202A & B.
  - At POWER PLANT 9 (PP9) WITH BEMCO AT SAUDI (as Lead Engineer) (2008/2009): To testing and commission 132/400/11KV GIS substation 32bays for: control panels, Protection panels, LCC (local control panels), Metering panels, Ananntuators and alarm panels,

SCADA signals.

- At POWER PLANT 9 (PP9) WITH BEMCO AT SAUDI (as Lead Engineer) (2007): To test and commission two Gas turbine auxiliaries 415V switch bards and 11KV switchgears.
- At AWEER POWER STATION (WITH BEMCO DUBAI) (as Commissioning Engineer) (2006): To test and commission the new two bays 400KV GIS for Protection, control, Scada, local signals, operation and measuring panel.
- At ISMAILIA 66/11KV SUBSTATION (as Protection Engineer) (2006): To replace all the mechanical Differential relays by 7UT 512 (Siemens) 4 bays.
- At INDUSTRIAL 66/11KV SUBSTATION (as Protection Engineer) (2005): To replace all the mechanical distance relays by REL 511 V2.5 (ABB) for all 66KV circuits and adding over current relay Micom P122 (8 bays).
- At EL-QSASSEN 66/11KV SUBSTATION (as Protection Engineer) (2005):
  - To replace 7 No. of 66KV forced Air break C.B by 7 No. of SF6 66KV ABB- C.B.
  - To install 66KV isolator.
- At INDUSTRIAL 66/11KV SUBSTATION (as Protection Engineer) (2004): To install new 11KV switch gear consists of 32 bays (EGEMAC).
- WEST QANTRA 66/11KV SUBSTATIONS (as Protection Engineer) (2004): To install new 11KV switch gear consists of 10 bays (EGEMAC).
- At EAST LUKE 66/11KV SUBSTATION (as Protection Engineer) (2004): To install new 8 air pressure isolators TECHEKY 66KV.
- At EL-SHABAB 66/11KV SUBSTATION (as Protection Engineer) (2004):
  - To replacement 7 No. of 66KV forced Air break C.B by 7 No. of SF6 66KV ABB C.B.
  - To installing 66KV isolator.
  - To installing new 11KV switch gear consists of 32 bays (EGEMAC).
- At SOUTH OF SAHLL EL HOSSUNEA 66/11KV SUBSTATION (as Protection Engineer) (2004):
  - To replace 7 No. of 66KV forced Air break C.B by 7 No. of SF6 66KV ABB- C.B.
  - To install new 11KV switch gear consists of 32 bays (EGEMAC).
- At EAST LUKE 66/11KV SUBSTATION (as Protection Engineer) (2003): To install new 11KV switch gear consists of 24 bays (EGEMAC).
- At EAST LUKE 66/11KV SUBSTATIONS (as Protection Engineer) (2002): To install 2 new 66KV bays, 2 C.B 66KV, 8 bars isolator EGEMAC, 6 current transformers, 6 voltage transformers, 6 lighting arrestors.
- At EL-QASSASEN 66/11KV SUBSTATION (as Protection Engineer) (2002): To upgrade the power system by new transformer 25 MVA, 66/11KV.
- At EL-SUEZ II 220/66/11KV SUBSTATION (as Protection Engineer) (2001): To install new power transformer 220/66/11KV, 125 MVA.
- At EL-MANIFI 220/66/11KV SUBSTATION (as Protection Engineer)

(2001): To install power transformer 220/66/11KV, 125 MVA.

- At EL-MANIFI 220/66/11KV SUBSTATION (as Protection Engineer)  
(2000): To replace all the mechanical distance relays type L8 by Micom P442 for all 220KV circuits (10 bays).

- Field of experience** :
- Presently working as a Senior Protection and Service Engineer (LVS) with ABB Qatar and following our projects as Project Engineer because I got project manager certificate as per the attached certificates and training courses.
  - About 20 years of experience in the Electrical system in the multiple fields like Oil and Gas, Power Plants, Manufacturing Industries, Projects, etc.
  - Expert in the Troubleshooting for Protection & Control circuits for HV, MV & LV circuit breakers, Switchgears, etc.
  - Advance knowledge of Testing, Configuring and Commissioning of GE Protection Relays like: G60, C60, T60, MIF II, ABB's: REF542, REF620, REF630; Alstom: P543, P442, P441, P122, P121, P127, P992, P243, Siemens: 7SJ611, 7SD610, 7UT633, 7UT612, 7SA511.
  - Can provide the technical support for the electrical circuit design review and its modification and Protection settings review.
  - Also did the commissioning for power plant electrical equipment's like 220KV Main Transformers, 15.75KV/6.6KV Auxiliary Transformers, 6.6KV/400V SST Transformers, MV & LV Switchgears.
  - Have also involved in the Annual and Routine Maintenance activities of power electrical equipment's.
  - Can prepare Maintenance instructions and spare parts strategy for electrical equipment.

**Experience in testing of the following protection devices:**

- Siemens Relays:
  - Current and E/F type (7SJ611).
  - Cable Differential Relay type (7SD610, 7UT633).
  - Restricted E/F type (7UT612).
  - Protection Relays (7SA511).
- Areva Relays:
  - Micom: P543, P442, P441, P122, P121, P127, P992, P243.
- GE Relays:
  - C60 Breaker Management Relay.
  - T60 Transformer Management Relay.
  - G60 Generator Management Relay.
  - Current & Earth fault relay (MIF II).
- ABB Relays:
  - Protection Relays: REL 511, REL 521, RADHA.
  - Protection Relays: REF 542+, REF630, REF615, SPAJ 140 C, SPAU140C, REF610 REF541, REJ525.
  - Differential protection: RED670, RET541.

**Test equipment which I can use:**

- FREJA 300 for sec injection to test all protection relays.
- OMICRNO CMC356 for sec injection to test all protection relays.
- OMICRNO CPC100 for testing current and voltage transformer.

- CBT 400 (HATHAWAY) for CB Timing.
- SVEREKER 750 for sec injection.
- ODEN AT/2X for Primary Injection.
- Megger.
- MOM.
- HIPOT Tester (High Voltage).
- XS92A (ABB).
- QZ Tester.
- PR010 ACB protection unit tester.
- Ekip ACB protection unit tester.