

101355-ELE-25DGMPST-E-2002

Protection & Control Specialist

Holds a B. Sc. in Electrical Power & Machines Engineering and has about 20 years hands-on experience in maintenance, testing, commissioning, design and engineering activities for control, protection, and other secondary systems for power plants, EHV and HV substations. Has also experience in the field of power system and power system protection engineering studies for transmission and distribution (T&D) systems using state-of-the-art commercial and educational software.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 28/06/1978
Gender : Male
Marital Status : Married
Residence : Currently Libya

EDUCATION

: B. Sc. in Electrical Power & Machines Engineering, Alexandria University, 2002

LANGUAGES

Arabic : Native Language
English : Fluent

COMPUTER SKILLS

: Windows, MS Office (Word, Excel, Power Point), Internet
: SIEMENS DIGSI software for final settings configurations and CFC control and protection functions
: ABB HMI500 software for REB500 bus bar protection
: ABB PCM600 software for final settings configurations and BCU configuration for LCC
: ALSTOM S1 AGILE software for final settings configurations and BCU configuration
: SEL AcSELeRator software for final settings
: GE EnerVista UR V7.0X protection software
: E3. series software for schematics design

TRAINING COURSES AND CERTIFICATIONS

: Project Management Professional (PMP®) Exam Preparation Course, Rowad Al-Etkan, Riyadh - KSA (Apr. 2014).

- : Course of motors and transformer winding in Don Bosco Institute (level two).
- : Course of Pneumatic, Electro pneumatic and Hydraulic control in Don Bosco Institute.
- : Course of transformers and generators protection in Abu Qir Power Plant.
- : Course of ABB distance relay REL 670 in AL-FANAR Training Center, Riyadh.
- : Training Course of ABB line differential relay RED 670 in ABB Transformer differential RET670 AL-FANAR Training Center.
- : ABB Bus Bar differential relay REB500 training in AL-FANAR Training Center.
- : SIEMENS Bus Bar differential relay 7SS522 training in AL-FANAR Training Center.
- : Manufacturing of incandescent and fluorescent lamps Control of IM using PLC, Neasa Company in Alex (summer training, 2000).
- : Bus Bar manufacturing Control and distribution panel manufacturing, Lectro Company in Alex (summer training, 2000).
- : Manufacturing of electronic circuits using IC555, Faculty of Engineering (summer 1999).

CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From Oct. 2021 till now
- Employer** : ALASIL ALLIBYA FOR OIL SERVICE - LIBYA
- Project** : Sabratha Platform - LIBYA
- Job title** : Protection & Control Specialist
- Job Description** :
- Scope of Work: Responsible for all types of maintenance for 3*9MVA Tempest Gas Turbines, MV/LV Switchgear, Motors, MCC and electrical utilities on the Sabratha Platform.
 - Maintenance include, but not limited to:
 - Maintenance of 6.6KV 9MVA SIEMENS gas turbines protection & control panel.
 - Maintenance/Testing of generator protection relay MICOM P343.
 - Maintenance/Testing of generator synchronization, excitation system & load sharing.
 - Maintenance of 6.6KV Switchgear, testing all protection relays for incomers, bus sections, feeders and motor contactors.
 - Testing directional over current relays, directional earth fault relays RMSD 7000, over current protection relay RMS 7000 and motor protection relays IMM 7000.
 - Maintenance/Testing of 6.6KV SF6 circuit breakers & Vacuum contactors.
 - Maintenance/Testing 400 V motors and their MCC's.
 - Leading, supervision and follow up the manpower and maintenance activities to ensure all jobs are executed safely according to the procedures, standards and company policy.
 - Preparing, Performing and scheduling of preventive maintenance work instructions, job safety analysis (JSA), materials issuing & purchasing for site's equipment.
 - Execution and follow-up of the operation, maintenance and troubleshooting of a wide variety of equipment.

Dates : From Sep. 2020 till Aug. 2021
Employer : Electro Tharwat for contracting
Project : EEHC ADMS - 4DCCs Project – New Cairo & Dokki Egypt
Job title : Engineering Manager
Job Description :

- Scope of Work: Supervising and technical support for team Handling 4DCC Project in New Cairo & Dokki.
- Detailed design engineering include, but not limited to:
 - Study the site survey & data collected from client to issue the required submittals.
 - Preparation of Distribution Points DPs & Substation Single Line Diagram.
 - Preparation of CT/VT Sizing Calculations as per new added IEDs.
 - Study the I/O list and the modification for achieving the required measurements, alarms & commands.
 - Preparation of new modified schematics detailed design as per approved base design.
 - Preparation of new layout as per new equipment's installations.
 - Preparation of new layout as per new fire alarm system installations.
 - Preparation of fire alarm study and layout.
 - Preparation of new bill of materials.
 - Attending technical meeting with client.

Dates : From Sep. 2018 till Jun. 2020
Employer : Bahrawy Consultant Group (BCG)
Job title : Protection Department Section Head
Job Description :

- Job Field: Base & detail design of Power Systems and Substations up to 500KV.
- Scope of Work: Supervising and technical support for team Handling a number of EHV and HV Transmission and Distribution (T&D) substation projects in the area of control, protection, metering, and other secondary design activities. These activities include, but not limited to:
 - Preparation of Substation Main Switching Single Line Diagram.
 - Preparation of Relaying & Metering Single Line Diagram and Protection Logic Diagram.
 - Preparation of Substation Interlocking Logic Diagram.
 - Preparation of CT/VT Sizing Calculations.
 - Reviewing of Gas Insulated Switchgear (GIS) and Metal-clad Switchgear CT/VT Data and Base/Detailed Design Documents.
 - Control & Protection Panel Engineering using E3 software.
 - Final Settings Calculations and configuration of various types of numerical protection and control relays for line, transformer, reactor, bus bar, capacitor, reactor, etc.
 - Interfacing with primary equipment, cable schedules and termination charts.
 - Interfacing with bay units and SCADA/RTU.
 - Preparing Tele-protection Interfacing Diagrams.
 - Reviewing of Manufacturer Power Transformer Base & Detail Design Schematics.
 - Reviewing of Manufacturer Relay and Control Panels such as Line, Transformer, Busbar, Capacitor, Bus-Coupler/Section, Load

Shedding, Energy Metering, Dynamic System Monitoring (DSM) Panels.

- Modifications of existing control and protection schematics in remote-end substations.

Dates	:	From Apr. 2007 till Jun. 2018
Employer	:	AL-FANAR Technical Service (ATS), Riyadh – KSA
Job titles	:	<ul style="list-style-type: none">• Testing & Commissioning Project Manager (from Apr. 2013 till Jun. 2018)• Senior Testing & Commissioning Engineer (from Apr. 2009 till Mar. 2013)• Testing & Commissioning Engineer (from Apr. 2007 till Mar. 2009)
Job Description	:	<ul style="list-style-type: none">• Supervising the testing and commissioning works up to 400KV substations and power stations.• Coordination between Saudi electric company (SEC) and Alfanar testing & commissioning AT&C.• Control, protection, metering, and interlocking schemes test.• Setting and configuration of various types of numerical protection and control relays for line, transformer, reactor, bus bar, capacitor, reactor, etc. (SIEMENS, ABB, ALSTOM, GE and SEL).• Experienced in all relay's configuration software (DIGSI, PCM600, Agile and EnerVista) for protection and SAS alarm.• Fair knowledge of design including relay setting calculation.• Well conversant with the IEC and other electrical international standards.• Sound knowledge and hands-on experience of testing.• Carry out short term and long-term plans related to commissioning, maintenance and operation.• Arrangement for 3-week schedule and over all testing and commissioning schedule.• Substations, Power stations testing and commissioning activities.• Protection relays Line differential, distance, BB high and low impedance and Transformer differential protection test (SIEMENS, ABB, ALSTOM, Schneider, GE and SEL).• Testing various series of Main Protection Relays including:<ul style="list-style-type: none">- SIEMENS: SIPROTIC 7VH600, 7VK611, 7UT61, 7SA522, 7SD522, 7SS522, 7UM62.- ABB: REF542plus, REF615. RED615, REL670, RED670, RET670, REB500.- ALSTOM & Schneider: MFAC14, P443, P545, P546, P643.- GE: G60 (Generator Protection System), T60 (Transformer Protection System).- VATECH (REYROLLE): ARGUS 1, ARGUS 7.- MR REINHAUSEN GERMANY: TAPCON 230, TAPCON 260.- SEL: SEL-451, SEL-311.• Protection panel's scheme function testes and design review.• 380KV, 110KV, GIS test and 13.8KV SWG test.• 380KV, 110KV BB and Transformers stability and sensitivity test.• Energization, End to End of S/S Troubleshooting and maintenances work.• Post fault maintenance activities.• Different Types of test equipment's (Freja / Omicron / Ct Analyzer / CPC

/ Primary Injection /).

- Experience Projects:
 - POWER PLANT #9 (PP9).
 - 380KV RABIGH-2 SWITCHING STATION.
 - REINFORCEMENT OF HAIL-2 POWER PLANT.
 - SHOAIBA II COMBINED CYCLE POWER PLANT.
 - JUBAIL REFINERY EXPORT PROJECT SATORP SUBSTATIONS.
 - 380/110KV THUWAL S/S.
 - 380/110/13.8KV HVE S/S.
 - 380/110/13.8KV AL KANDARAH S/S.
 - 380/110/13.8KV MADINAH EAST S/S.
 - HARAMIN HIGH SPEED RAILWAY SUBSTATION 380/110/33 & 13.8 KV HHR-2 S/S.
 - 110/13.8KV AL SHARIAYH S/S.
 - 110/13.8KV NEW AZIZIAH S/S.
 - 110/13.8KV TEIAM S/S.
 - 132/13.8KV TABOUK 9 S/S.
 - 132/13.8KV 8139 S/S.
 - 132/13.8KV 8839 S/S.
 - 132/13.8KV 8211 S/S.
 - 380/132/13.8KV 9038 ASHBILIA S/S.
 - 380/132/33/13.8KV 9052 METRO S/S.
 - 380/132/13.8KV 9048 NEW SOUTH INDUSTRIAL S/S.
 - 132/13.8KV 8211 S/S.

Dates : From Aug. 2002 till Mar. 2007
Employer : General Company for Paper Industry (RAKTA), Alexandria
Job title : Maintenance Engineer
Job Description :

- Supervision on the preventive and corrective maintenance of steam power station, protection of generators and transformers.
- Maintenance of medium and low voltage motors and motors control systems.
- Requesting of Spare parts, preparation of materials specifications for the electrical and control section.
- Maintenance of medium and low voltage switch gear.
- Maintenance of water treatment station including PLC control system.