

**101355-ELE-MPT-E-2002**  
**Testing & Commissioning Project Manager**

Holds a B. Sc. in Electrical Power & Machines Engineering and has about 16 years hands-on experience in Protection Systems, GIS, SWG of Power Stations, Substation Testing and Commissioning.

## PERSONAL DATA

Nationality : Egyptian  
Birth Date : 28/07/1978  
Gender : Male  
Marital Status : Married  
Residence : Currently KSA

## EDUCATION

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

## LANGUAGES

Arabic : Native Language  
English : Excellent  
Italian : Fair

## COMPUTER SKILLS

: Windows, MS Office, Internet

## TRAINING COURSES AND CERTIFICATIONS

- : 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.
- : Training Course of SIEMENS bus bar differential relay 7SS522 and ABB REB500 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 Apr. 2007 till now
- Employer** : AL-FANAR Technical Service (ATS), Riyadh – KSA
- Job titles** :
  - Testing & Commissioning Project Manager (from Apr. 2013 till now)
  - Senior Testing & Commissioning Engineer (from Apr. 2009 till Mar. 2013)
  - Testing & Commissioning Engineer (from Apr. 2007 till Mar. 2009)
- Job Description** :
  - Supervising the testing and commissioning works in 400KV, 110KV, 132KV and 33KV substations and power stations.
  - Coordination between Saudi Electric Company (SEC) and Al-Fanar Testing & Commissioning (AT&C).
  - 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.
  - Protection panel's scheme function testes and design review.
  - 380KV, 110KV, GIS test, 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 / ....).
- 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.

List of Substations which I finished with my company and other contractors:

- POWER PLANT #9 (PP9), BEMCO RIYADH KSA.
- 380KV RABIGH-2 SWITCHING STATION, AL FANAR RABIGH KSA.
- REINFORCEMENT OF HAIL-2 POWER PLANT, AL FANAR HAIL KSA.
- SHOAIBA II COMBINED CYCLE POWER PLANT, DAELIM SHOAIBA KSA.
- JUBAIL REFINERY EXPORT PROJECT SATORP SUBSTATIONS, TECHNIP JUBAIL KSA.
- 380/110KV THUWAL S/S, AL FANAR THUWAL KSA.
- 380/110/13.8KV HVE S/S, AL FANAR JEDDAH KSA.
- 380/110/13.8KV AL KANDARAH S/S, AL FANAR JEDDAH KSA.
- 380/110/13.8KV MADINAH EAST S/S, AL TOUKHI MADINAH KSA.
- HARAMIN HIGH SPEED RAILWAY SUBSTATION 380/110/33 & 13.8KV HHR-2 S/S, AL FANAR RABIGH KSA.
- 110/13.8KV AL SHARIAYH S/S, AL-FANAR MAKKAH KSA.
- 110/13.8KV NEW AZIZIAH S/S, SIEMENS MAKKAH KSA.
- 110/13.8KV TEIAM S/S, ABB MADINAH KSA.
- 132/13.8KV TABOUK 9 S/S, VATECH TABOUK KSA.
- 132/13.8KV 8139 S/S, AL FANAR RIYADH KSA.
- 132/13.8 KV 8839 S/S, AL FANAR AL ZULFI KSA.
- 380/132/13.8KV 9038 ASHBILIA S/S, AL TOUKHI AL RIYADH KSA.
- 380/132/33/13.8KV 9052 METRO S/S, NCC AL RIYADH KSA.
- 380/132/13.8KV 9048 NEW SOUTH INDUSTRIAL S/S, SSEM AL RIYADH KSA.
- 132/13.8KV 8211 S/S, ACC RIYADH KSA.

- Field of experience :**
- Excellent experiences in design review, implementation and troubleshooting of control panels and protection systems.
  - Achieving projects cost, time and schedule.
  - Good experience in dealing with instrument specifications, installation, and calibration.
  - Dealing with Loop diagram, logic diagrams, cause and effect diagrams, all electrical hard-wire and Mechanical drawings.
  - Performing Testing and Calibration of most of protective relays used to protect generator, motors, Transformers.
  - Good experience in performing of preventive and Corrective maintenance for electrical, control equipment.
  - Good experience in dealing with generators excitation systems.
  - Excellent experiences in field supervision for installation of Electrical and instrument works.
  - Excellent programming skills in PLC's Using Ladder & Function Block.
  - Excellent experiences in dealing with networked SCADA systems.
  - Dealing with Allen-Bradley, Schneider and Siemens PLCs.
  - Supervising the testing and commissioning works in 400KV, 110KV, 132KV and 33KV substations and power stations.
  - Technical support for testing teams at projects Management with manufacturers, Designer and End Client.
  - Proper management and negotiations with manufacturers, Designer and End Client.
  - Fair knowledge of design including relay setting calculation.
  - Wide experience in all testing and commissioning of 400KV, 110KV,

- 132KV and 33KV substations and power stations.
- Good experience in Substation Automation Systems (SAS) for ABB, SIEMENS & ALSTOM.
  - Testing various series of Main Protection Relays including:
    - SIEMENS: SIPROTIC 7VH600, 7VK611, 7UT61, 7SA522, 7SD522, 7SS522.
    - ABB: REF542plus, REF615. RED615, REL670, RED670, RET670, REB500.
    - ALSTOM: 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.
  - Function test of 380KV, 110KV high and low double BB protection schemes, Breaker Failure schemes and stability test.
  - Function test of 380KV, 110KV Line protection feeders and auto reclose schemes.
  - Function test of 380KV, 110KV Transformer protection feeder's schemes and stability test.
  - Function test of generator protection and control panel (GE).
  - Testing generator protection relay and overall differential G60 AND T60 (GE).
  - Stability & Sensitivity test for generator, generator step up transformer (GSU) & unit auxiliary transformer (UAT).
  - Testing 132KV & 380KV GIS: CB test, BB contact resistance, C.T test, V.T test, function, scheme test and HV test for different types of GIS.
  - Testing 0.48, 4.16, 13.8 & 33KV switchgear panels: CB test, BB contact resistance, C.T, and V.T test, Primary Injection, High Voltage, B.B Stability, Over Current Protection, Stuck Protection, B B Protection & Function Test for different types of Switchgear.
  - Testing protection and control panels for 132 & 380KV substations: Scheme & function test for under voltage and under frequency Load Shedding, automatic voltage regulator AVR, Automatic change over switching scheme equipment ACSE, automatic capacitor control scheme ACCS, Synchronizing, Annunciator, Fast automatic bus transfer ABTS & Bus Bar Protection Panels.
  - Excellent knowledge in dealing with ABB PCM600, SIEMENS DIGSI V4.9 and ALSTOM AGILE V1.3 software.
  - Excellent experience in electrical distribution including calculations and drawings, SLDs, layouts and profiles, cable schedules, LV cable sizing, Wiring/termination diagrams, HV/LV control circuit diagrams, electrical layouts, earthing layouts (incl. calculations), lighting layouts, DC & AC UPS system configurations, vendor electrical drawings, construction scopes.
  - Excellent experience in dealing with software used in engineering designs.
  - Excellent experience in preparing basic engineering documentation for instrumentation and data specification.
  - Requesting of Spare parts, preparation of materials specifications.
  - Performing low voltage electrical network design.
  - Excellent experience in writing technical documents for the implemented

solutions.

- Skills:
  - Projects Cost Estimations and time scheduling.
  - Good experience in design reviews.
  - Good experience in power station commissioning from startup (temporary supply, Battery charging/discharging) until Generator gets synchronized to grid and load up to base load. Test sequence till first Energizing (Back feed) of Generator Step up Transformer. Implementing and testing of interlocking / intertripping scheme between generators to switchgear. Excitation no load / load test steps and sequence.
  - Good experience in low, medium and high voltage switchgears. Ability to operate, troubleshoot, test & commission MV and HV breakers, switchgear, protection relays, cables, GIS.
  - Good experience in ABB PCM600 HMI500, SIEMENS DIGSI, ALSTOM AGILE , SEL and GE protection software.
  - Good idea in SCADA & SAS systems.