

Holds a B. Sc. in Electrical Power & Machines Engineering and has about 7 years hands-on experience working in construction, maintenance, testing and protection.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 28/06/1988
Gender : Male
Marital Status : Married
Residence : Giza, Cairo

EDUCATION

: B. Sc. in Electrical Power & Machines Engineering, Helwan University, 2010

LANGUAGES

Arabic : Native Language
English : Very Good
French : Fair

COMPUTER SKILLS

: Windows, MS Office, Internet

TRAINING COURSES AND CERTIFICATIONS

- : JESCO Lutz-Jesco GmbH (in Germany): Course for chlorine gas technology with PLC system.
- : Seepex.com (in Germany), Course for electrical pumps:
 - Function of progressive cavity pumps.
 - Installation and disassembly of seepex pumps.
 - Assembly and adjustment of "smart conveying technology", SCT.
 - Failure analysis of electrical parts.
 - Faults simulation and prevention.
- : OBL (in Italy): Course for metering pumps and systems.
- : G.B.FILTRI (in Italy), Course for self cleaning filters:
 - Self cleaning filters basic installation procedures.
 - Self cleaning filters basic design concepts.
 - Self cleaning filters basic operating concepts.
 - Self cleaning filters basic control panel signals and internal controls.
 - Self cleaning filters practical maintenance procedures demonstration.

- : GE (General Electric) Energy (at GIZA NORTH PLANT - EGYPT), Course for Exciting control system EX2100e & LS2100 & GPP:
 - Generator Fundamentals.
 - EX2100e Static Overview.
 - Static Exciter Control hardware cabinet.
 - EX2100e Static Power Conversion Module (PCM).
 - ToolboxST – System Overview.
 - ToolboxST – Controller Setup (software download).
 - ToolboxST System Editor – Open ToolboxST.
 - Running Simulator Mode.
 - TOOLBOXST ALARM VIEWER.
 - Touchscreen – Provides Status and Basic Operation.
 - ToolboxST – Simulated Step test (preprogrammed Capture Buffers).
 - ToolboxST DDR – Dynamic Data Recorder.
 - Preventive maintenance.
 - Parts replacement.
 - LS2100 System & Troubleshooting.
 - G60 Generator Management Relay.
 - EX2100e, LS2100, GPP & One line Drawings.
- : Power Plants Operation and Maintenance training, North Cairo Power Station:
 - Combined power station theory.
 - Gas turbine theory (Main components – Operation systems).
 - Steam turbine theory (Main components – Operation systems).
 - Instrumentation and measurements at power stations (Sensors – Transmitters – Gauges).
 - Pumps (Classification – Operation – Maintenance).
 - Compressors (Classification – Operation – Maintenance).
 - Valves (Classification – Operation – Maintenance).
 - Electrical Equipment (Motors – Generators – Transformers).
 - Boilers (Main components – Construction concepts – Operating – Maintenance).
- : Programmable Logic Control – PLC, Helwan University:
 - Design the electrical control circuits using PLC.
 - Using PLC software.
- : Electrical distribution systems, Jelecom Company:
 - Designing Low voltage & medium voltage distribution sys.
 - Dialux program for lighting calculation.
 - Telephone and fire protection sys.
 - Using AutoCAD program.
- : Training in Petrol Company GUPCO in Ras Ghareb site (2008-2009).
- : Training in The General Company for Silos and Storage (2008).

CHRONOLOGICAL EXPERIENCE RECORD

Dates : From Feb. 2015 till now
Project : 6th of October Power Station
Job title : Electrical Engineer

Job Description :

- Supervising testing and commissioning, GIS (gas isolated switches) and switchyard installations.
- Maintaining HV circuit breakers and LCC (local control cubical) panels.
- Installing and testing LV systems and lighting (normal & emergency).
- Modifying control schemes for GIS breakers.
- Installing and testing earth grid system for the plant.
- Installing and testing and maintaining LV & MV motors.
- Testing protection panels for GIS.
- Installing and testing UPS (uninterruptible power supply) systems.
- Testing Generator protection panels.
- Testing transformer 150 MVA protection panels.
- Installing 220V DC and 48 V DC systems with chargers.
- Supervising installation of 220KV underground cables between main transformers and GIS building.
- Maintaining MV circuit breakers.
- Installing lightning arrestors system at plant.

Dates : From Jan. 2011 till Feb. 2015

Project : Giza North Combined Power Station

Job title : Electrical Engineer

Job Description :

- Studying the technical proposal for tie transformers 250MVA, GIS (gas isolated switches) and switchyard installations.
- Preparing the price adjustments for the offers.
- Supervising and reviewing the project time schedules.
- Replying the contractors' clarifications.
- Modifying the electrical systems controls and performance.
- Supervising installation of temporary construction power with switchgear and 5 transformers 6.3KV/400 Volt.
- Supervising installation of 220KV and 500KV GIS equipment.
- Supervising installation lighting and power and HVAC system of switchyard and control building.
- Installing cable trays and race ways for communication and protection units.
- Supervising inspection and installation of control panels, protection panels and AC-DC panels.
- Supervising installation 220V DC and 48V DC systems with chargers.
- Supervising installation of 500KV underground cables between main transformers and GIS building.
- Installing 220KV and 500KV take off gantry.
- Supervising installing and inspection of 3 phases 750 MVA tie transformer (auto transformer).
- Maintenance 24 units of 220KV potential transformer.
- Supervising CTs tests of 400 V switchgear.
- Supervising installing of two 35 meter overhead cranes.
- Installing two transformers 11KV / 400 V to start commissioning.
- Testing LUX at GIS building, generator building, electrical buildings and modify lighting design.

Dates : From Aug. 2010 till Jan. 2011

Project : Giza North Combined Power Station

- Job title** : Operation Engineer
- Job Description** :
- Control and monitor boilers, turbines, generators and auxiliary equipment in the plant.
 - Distribute power among generators.
 - Regulate the output from several generators.
 - Monitor instruments to maintain the continuous steady performance of the plant.
 - Adjusting the mechanical and electrical equipment setting points to achieve the proper plant operation.
 - Supervising maintenance of gas turbine and its generator 15.6KV – 250 MVA.
 - Maintenance for main transformer (15.6 -500KV) step up.
 - Maintenance for sf6 circuit breaker.
 - Testing 500 – 220KV cables.