

Holds a B. Sc. in Mechanical Power Engineering and has about 6 years hands-on experience working in operation, commissioning and start-up at Power Plants.

## **PERSONAL DATA**

Nationality : Egyptian  
Birth Date : 22/12/1987  
Gender : Male  
Residence : Qalubia

## **EDUCATION**

: B. Sc. in Mechanical Power Engineering, Benha University, 2009

## **LANGUAGES**

Arabic : Native Language  
English : Very Good  
German : Good  
Italian : Basics

## **COMPUTER SKILLS**

: Windows, MS Office, Internet

## **TRAINING COURSES AND CERTIFICATIONS**

- : GE Energy Training Centre, Belfort, France (May/Jun. 2013):
  - Operation training: A comprehensive training for GT 9FA DLN 2.6+ start-up, operation and shut down including:
    - P&ID Reviewing and Studying for all mechanical systems.
    - Case Studies for GE's previous experiences.
    - DLN 2.6+ Firing stages.
    - Model Base Control (MBC).
  - Mark VIe Control training:
    - Toolbox ST Basics, Mark VIe Controller, IO packs, terminal boards.
    - Monitoring IO signals and IO configuration.
    - Constants and variables.
    - Forcing signals.
    - Trender and Alarms and alarm tracing.
    - Viewing Trip log.
    - Servo valve calibration.
    - Cimlicity.
  - Excitation System EX2100e training: Fundamentals and operation of

- EX2100e excitation system including software and hardware overview and excitation control.
- : Combined Power Plants operation and maintenance training, North Cairo Power Plant:
  - Combined power plant configuration.
  - Gas turbine (Main components – Operation systems – Protection and Control).
  - Steam turbine (Main components – Operation systems – Protection and Control).
  - Instrumentation and measurements (Sensors – Transmitters – Gauges).
  - Pumps (Classification – Operation – Maintenance).
  - Compressors (Classification – Operation – Maintenance).
  - Valves (Classification – Operation – Maintenance).
  - Electrical machines (Motors – Generators – Switchgears).
  - Heat Recovery Steam Generators (Main components – Construction concepts – Operating – Maintenance – Protection and Control).
- : Steam Power Plants operation and maintenance training, Shoubra Power Plant:
  - Thermal power plant.
  - Steam turbine (Main components – Operation systems).
  - Instrumentation and measurements (Sensors – Transmitters – Gauges).
  - Pumps (Classification – Operation – Maintenance).
  - Compressors (Classification – Operation – Maintenance).
  - Valves (Classification – Operation – Maintenance).
  - Electrical machines (Motors – Generators – Switchgears).
  - Boilers and Steam Generators (Main components – Construction concepts – Operating – Maintenance).
- : Primavera Project Management course, Cairo University:
  - Select the Right Strategic Mix of Projects.
  - Assure Corporate Governance of Project.
  - Enhance Processes and Methods.
  - Improve Project Team Collaboration.
  - Measure Progress toward Objectives.
  - Ensure Projects Align with Strategy.
  - Complete Projects Successfully with the Intended Payback.
- : Solid Works Mechanical Engineer Drawing, Benha University:
  - Design Parts.
  - Assembly Design.
- : Advanced Hydraulics, Yasser Fahmy Hydraulics, Cairo (Sep. 2007):
  - Hydraulic circuits components.
  - Hydraulic pumps Valves – Actuators.
  - Hydraulic circuits Control.
  - Basics of Hydraulic circuits design.
- : Automatic Control, Silesian Institute (Don Bosco), Cairo (from Aug. till Nov. 2009):
  - Design the ordinary electrical control circuits.
  - Obtain the knowledge about control systems.
  - Discover and Repair the control circuit's errors.
- : Programmable Logic Control (PLC), Jeicom Company, Cairo (Aug. 2008):
  - Design the electrical control circuits using PLC.
  - Using PLC software.

- : Allweiler Farid for pumps industry (Jun./Jul. 2008):
  - Centrifugal pumps manufacturing.
  - Pumps operating.
  - Pump testing procedure.
  - Pumps troubleshooting.

## CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From Feb. 2013 till now
- Employer** : Cairo Electricity Production Co. (CEPC)
- Project** : Giza North Power Plant
- Job title** : Shift Operation Engineer
- Job Description** :
- 6x250 GE 9FA gas turbine gas and liquid fuel fired including:
    - Maintenance activities that related to gas turbine operation.
    - Gas Turbine Compressor water wash.
    - Load rejection test, Housing test and over-speed test.
  - STF Heat Recovery steam Generator (HRSG) steam blowing, commissioning and start-up.
  - Ansaldo Energia 3x250MW steam turbine commissioning and start-up testing (First rolling - Overspeed - Load rejection tests).
  - Balance of Plant (BOP) commissioning and operation including (Air compressors, Closed Cooling Water pumps, Service Water pumps, Liquid fuel pumps, Circulate Water pumps, Liquid fuel treatment system and feed water pump).
  - 400V Low Voltage, 6.3KV Medium Voltage Switchgear, Emergency Diesel Generators testing and 220KV and 500KV GIS.
  - Issuing the work permits for maintenance department and project contractors for maintenance, construction and commissioning activities in the project field.
  - Job training for the fresh engineers that joined the team to make them familiar with the work environment.

- Dates** : From Aug. 2015 till now (part time)
- Employer** : Qarun Petroleum Co.
- Job title** : O&M Gas Turbine Engineer
- Job Description** :
- 6 Solar gas turbine Centaur-50 gas and liquid fuel fired controlled by RSLogix5000 Allen Bradley Controller.
  - Carry out start-up, shutdown and routine and scheduled emergency operations of the assigned plant / equipment as per the standard operation procedures and instructions.
  - Monitor and check the assigned plant / equipment to identify abnormalities and report any defects / faults immediately in order to initiate necessary corrective action
  - Participate in risk assessment and safety training in order to maintain plant and personnel safety and to fulfill the OH&S requirements.
  - Preventive Maintenance and corrective Maintenance and troubleshooting for the gas turbines.

**Dates** : From May 2012 till Jan. 2013  
**Employer** : Cairo Electricity Production Co. (CEPC)  
**Project** : Cairo North Combined Power Plant  
**Job title** : Shift Assistant Engineer  
**Job Description** :
 

- Responsible for the safe operation of a wide range of equipment including:
  - 2x250MW GE 9FA gas turbine controlled by Mark VI.
  - 2 NEM Heat Recovery Steam Generators.
  - 1x250MW ALSTOM Steam Turbine.
  - BOP controlled by Mark VIe DCS.
  - Service water system closed cooling water system.
  - GIS 220KV.
  - 6.3KV switchgear 400 V switchgear for low Voltage Equipment.
- Perform the required weekly and monthly tests.
- Cooperate with maintenance departments for troubleshooting.
- Prepare the daily performance reports.
- Issuing the work permits for maintenance to ensure the safety for personnel and equipment.
- Advise the maintenance department of any malfunctioned equipment or operation parameters in conflict with normal levels.
- During power train outages revert to day shift working to provide assistance to Maintenance Dept. as directed by the Operation Manager.

**Dates** : From Jan. 2012 till Apr. 2012  
**Employer** : Cairo Electricity Production Co. (CEPC)  
**Project** : 6th October Simple Cycle Power Plant  
**Job title** : Commissioning & Start-up Engineer  
**Job Description** :
 

- Responsible for the initial operation of 150MW Ansaldo Energia gas turbine.
- Gas turbine testing (First Fire – Unloading test – Housing Test).
- Gas turbine auxiliaries testing (Air Compressors – Closed Cooling System).
- Gas turbine performance measurement.
- BOP Commissioning: Air Compressors, Closed Cooling Water Pumps and gas fuel system.
- CO2 firefighting system testing.

**Dates** : From Aug. 2010 till Dec. 2011  
**Employer** : Cairo Electricity Production Co. (CEPC)  
**Project** : Giza North Combined Power Plant  
**Job title** : Mechanical Engineer  
**Job Description** :
 

- Studying the technical proposal for Heat Recovery Steam Generator, Steam Turbine, Gas Turbine and miscellaneous mechanical installations.
- Preparing the price adjustments for the offers.
- Supervising and reviewing the project time schedules.
- Ensure project contractors compatibility.
- Replying the contractors' clarifications.
- Modifying the mechanical systems controls and performance.
- Contractors' submittals receipt and adding comments.