

Holds a B. Sc. in Mechanical Power Engineering and has over 12 years hands-on experience working in operation, commissioning and start-up at Power Plants.

## **PERSONAL DATA**

Nationality : Egyptian  
Birth Date : 22/10/1983  
Gender : Male  
Marital Status : Married  
Residence : Marsa Matrouh

## **EDUCATION**

: B. Sc. in Mechanical Power Engineering, El-Minia University, 2005

## **LANGUAGES**

Arabic : Native Language  
English : Very Good  
French : Fair

## **COMPUTER SKILLS**

: Windows, MS Office, Internet

## **TRAINING COURSES AND CERTIFICATIONS**

- : Basic Operation and MMI-Training for ALSTOM steam turbine (off-shore), ALSTOM Power Systems GmbH, GERMANY (Jan./Feb. 2010).
- : SIEMENS gas turbine SGT6-5000F by SIEMENS.
- : SIEMENS steam turbine SST6-4000F by SIEMENS.
- : SIEMENS Gas turbine on-job training by SIEMENS AG:
  - PID understanding and reading.
  - Starting & shut down of GT.
  - SEE & SFC, auxiliary systems.
  - Generators & start-up transformers.
  - Protection of GT.
  - Process Control Center (PCC).
  - Dealing with emergency conditions.
- : Operation of Heat Recovery Steam Generator (HRSG) in CMI Company:
  - HRSG water survey.
  - HRSG conservation.
  - HRSG heating release.

- HRSG alarms.
- HRSG tripe.
- HRSG logics.
- : SAMSUNG training in Chemical Feed System.
- : Operation of feed water pumps, condensate pumps IP & HP (sigma).
- : Operation pipe rack, valves and IP & HP bypass (Skoda).
- : Hitachi Steam Turbine 250MW Operation training course.
- : Training for DCS (the ovation OV010) by EMERSON.
- : Safety and Fire fighting rules of UEEPC Training Center.
- : PERSONAL SAFETY & PROTECTION from GPILEARN site.
- : Introduction in combined cycle from GPILEARN site.
- : SAMSUNG training in HRSG System.
- : SAMSUNG training in Chiller Plant System.
- : SAMSUNG training in Sea Water Intake System.
- : SAMSUNG training in Electro Chlorination System.
- : SAMSUNG training in Waste Water System.
- : SAMSUNG training in Demineralization Desalination System.

## CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From Jun. 2015 till Nov. 2018
- Employer** : [EGYPTROL](http://www.egyptrol.com) – Seconded to GE POWER & WATER
- Projects** :
- Basaten Power Plant Gas Turbine 50MW (2x25MW):
    - Two GE Gas Turbines TM 2500
    - Water treatment plant produce DM water
    - Fire fighting system (Water fire fighting system)
    - Fuel oil system (centrifugal separator system)
  - Cairo East Power Plant Gas Turbine 50MW (2x25MW)
  - Heliopolis Power Plant Gas Turbine 50MW (2x25MW)
  - Samalut Power Plant Gas Turbine 50MW (2x25MW)
- Job title** : Operation Engineer
- Job Description** :
- Dealing with DCS System – Wood Word / Micronet, Logic / GAP.
  - Preparation for operation of the units (check alarms and be sure that there is permissive for both units to start and all condition is achieved to start both units, survey for all auxiliary equipments (pumps, valves, filters, transmitters....etc.) for both units, check the level for (fuel tanks and other auxiliary tanks), check fire fighting system is ready.
  - Check the voltage and frequency of the grid and verify that it is suitable and in the safe range to start both units, if it is not in the proper range, I coordinate with transformers station to get right voltage for safe operation.
  - Change all types of filters (low and high pressure for fuel, air inlet filters....etc.).
  - Take a sample every day from the fuel to insure it is pure as can as possible.
  - Operate a unit called centrifugal unit used to purify the fuel.

- Follow the right instruction to start both units to keep safe operation.
- Supervise all values (temperatures, pressures, levels and many other important values) during operation from a HMI screen.
- Follow proper steps for normal shutdown and avoid emergency shutdown.
- Register a data sheet contain all values (MW, MW/H, run time hour, start and end time of operation, fuel consumption.....etc.).
- Verify and execute all safety requirements needed for work precisely.

**Dates** : From Oct. 2013 till Apr. 2015

**Employer** : NOMAC

**Project** : Qurayyah Power Plant QIPP Combined Cycle 4000MW – KSA:  
2 modules:

- Module No. 1:
  - Six SIEMENS Gas Turbines SGT6-5000F 6x231MW.
  - Six BHC Heat Recovery Steam Generation (HRSG) + Three SIEMENS steam turbine SST6-4000F 3x231MW.
- Module No. 2:
  - Six SIEMENS Gas Turbines SGT6-5000F 6x231MW.
  - Six BHC Heat Recovery Steam Generation (HRSG) + Three SIEMENS steam turbine SST6-4000F 3x231MW.
- Water treatment plant produce DM water, Service water, Filtrate water and potable water.
- Fire fighting system:
  - Water fire fighting system.
  - FM200 fire fighting system.
- N2 generation system.
- Fuel gas system has:
  - 13 gas compressors.
  - 7 reduction stations.
  - 7 water bath heaters.
- Fuel oil system: Distillate fuel oil.
- Chilled water system for cooling inlet air.

**Job title** : Operation Engineer

**Job Description** :

- Combined Cycle Plant operation and start-up.
- Safe Start-up and Shutdown Operation for all Plant.
- Fast Acting in Emergency Cases.
- Reviewing results and meeting with managers to discuss methods of improving the productivity of existing systems.
- Fast Acting in Emergency Cases.
- Dealing with SPPA-T3000 controller hardware and software (control system Toolbox).
- Supervision for chemical cleaning and steam blowing for HRSG.
- BOP operation (cooling water system, fuel forwarding system, fire fighting system, ...).
- Identifying, investigating and repairing system faults.
- Supervising the work of manufacturing engineers and support staff.
- Follow all safety instructions.

**Dates** : From Feb. 2011 till Sep. 2013  
**Employer** : Upper Egypt Electricity Production Company (UEEPC)  
**Project** : El-Kureimat II Combined Cycle Power Plant (750MW):
 

- Siemens GT V94.3A 2x250MW "Teleperm XP".
- Hitachi steam turbine 1x250MW "Mark VI control".
- 2 Heat Recovery Steam Generators (HRSG) CMI – SKODA.
- The plant is controlled via "EMERSON – WDPF DCS control system".
- Hydrogen generation plant has 2 H2 generators.
- Water treatment plant produce demin water, Service water, Filtrate water and potable water.
- Fire fighting system:
  - Water fire fighting system.
  - CO2 fire fighting system.
- Cooling water system for CTG & STG.

**Job title** : Shift Charge Engineer  
**Job Description** :
 

- Combined Cycle Plant operation and start-up.
- Safe Start-up and Shutdown Operation for all Plant.
- Reviewing results and meeting with managers to discuss methods of improving the productivity of existing systems.
- Fast Acting in Emergency Cases.
- Dealing with Mark VI controller hardware and software (control system Toolbox).
- Supervision for chemical cleaning and steam blowing for HRSG.
- BOP operation (cooling water system, fuel forwarding system, fire fighting system, ...).
- Identifying, investigating and repairing system faults.
- Supervising the work of manufacturing engineers, trainee new engineers and support staff.
- Responsible for the work permit.

**Dates** : From Dec. 2006 till Feb. 2011  
**Employer** : Upper Egypt Electricity Production Company (UEEPC)  
**Project** : El-Kureimat II Combined Cycle Power Plant (750MW)  
**Job title** : Start-up & Operation Engineer  
**Job Description** :
 

- Combined Cycle Plant operation and start-up.
- Supervising the Testing, Start-up and Commissioning for SIEMENS gas turbine.
- Supervision commissioning for HRSG I&II and pipe rack equipments for CMI – SKODA.
- Supervising the Testing, Start-up and Commissioning for Hitachi Steam Turbine.
- Supervising generators testing and commissioning.
- Dealing with Mark VI controller hardware and software (control system Toolbox).
- Dealing with equipments during start-up, shutdown.
- MV & LV operation (16.5KV, 18KV, 6.3KV, 400 V, ...).
- G. I. S. switchyard 220KV operation.
- Supervision for chemical cleaning with CMI Company.
- Supervision steam blowing for HRSG I & II and steam turbine piping.

- Supervision commissioning for steam turbine and its auxiliaries.
- Identifying, investigating and repairing system faults.
- Preparing the HRSG to start-up including:
  - Start-up for condensate system.
  - Start-up for FW pumps.
  - Preparing (HP, IP, LP) circuits.
  - Start-up for HP, IP bypass.
- Preparing for any types for start-up (hot, warm, cold) start.

**Dates** : From Jul. 2006 till Dec. 2006  
**Employer** : Upper Egypt Electricity Production Company (UEEPC)  
**Project** : El-Kureimat II Combined Cycle Power Plant (750MW)  
**Job title** : Mechanical Engineer  
**Job Description** :
 

- Review corporate contracts and taking notes and discussed with Managers.
- Supervise the construction turbine, all Aux. system & cooling system.

**Field of experience** : Dealing with Teleperm XP, EMERSON – WDPF DCS, Mark VI and SPPA T3000 hardware and software (control system Toolbox).

