

Holds a B. Sc. in Mechanical Engineering and has over 15 years hands-on experience working in operation, commissioning, start-up and PTW.

## PERSONAL DATA

Nationality : Egyptian  
Birth Date : 25/01/1982  
Gender : Male  
Marital Status : Married  
Residence : New Cairo

## EDUCATION

: B. Sc. in Mechanical Engineering, Higher Technological Institute - 10<sup>th</sup> of Ramadan City, 2004

## LANGUAGES

Arabic : Native Language  
English : Very Good

## COMPUTER SKILLS

: Windows, MS Office, Internet  
: AutoCAD

## TRAINING COURSES AND CERTIFICATIONS

- : Training course of operation GE TM2500+ SAC, Cairo North Training Center (May/Jun. 2015).
- : Training course of Safety and Firefighting at Fire Fighting and Industrial Security Department, Egyptian Ministry of Interior (Mar. 2015).
- : Training course of ABB Harmony INFI90 at ABB power system division training center in Genoa – Italy (Jun./Jul. 2009).
- : Training course of Siemens SPPA T3000 operator at Siemens Training Center in Shoubra El-Kheima Power Plant (from Dec. 2007 till Jan. 2008).
- : Site specific course of power plant equipments and system theory by Bechtel Overseas Corporation, Shoubra El-Kheima Training Institute (from Mar. till Jun. 2005).
- : Practical hand work training for making a complete overhaul for diesel engines and fuel pumps of the fleet and all maintenance schedules even air conditioning of the vehicles, East Delta Travel Company (Renault, Mercedes, Scania bus) (from May till Aug. 2004).

- : Mixed training between theoretical mechanical engineering represented in thermodynamics (Rankine cycle) and real practical application, Shoubra El-Kheima Power Plant (from May till Aug. 2003).
- : Training course consists of introduction, discussion and practical design in laboratories and work shops on hydraulics, pneumatics, electric circuits and PLC, Technology Competency Center (from May till Aug. 2002).

## CHRONOLOGICAL EXPERIENCE RECORD

**Dates** : From Oct. 2018 till now

**Employer** : [EGYPTROL](#), AC Boilers (Ansaldo Caldaie) Subcontractor

**Project** : South Helwan Thermal Power Plant (3 units x 650MW Super Critical)

**Job title** : Shift Charge Engineer

**Job Description** :

- Boiler RAH, FDF and GRF lube oil flushing. Equipment solo run and heat run test, chemical cleaning, Steam blowing, Safety V/V popping test, soot blower commissioning.
- Cold/Hot Start-up and shutdown procedure, operation of boiler according to operation instructions during Benson load using BCP (boiler circulating pump) till once through load.
- Maintain the boiler in proper operation.
- Distillation Plant Operation of RO units and Plant Auxiliaries 16 unit RO of total 47 MIGD.
- Mixed bed ion exchanger of capacity 30000m<sup>3</sup>/day Sea water station and Auxiliaries (feeding / screening / discharge system).
- Chlorination Plant.
- Recarbonation Plant.

**Dates** : From May 2018 till Oct. 2018

**Employer** : [EGYPTROL](#), Ansaldo Energia Subcontractor

**Project** : 6th October Combined Cycle Add on Project (1x300MW HRSG)

**Job title** : Shift Charge Engineer

**Job Description** :

- Closed cooling system flushing, condensate system chemical cleaning feed water system chemical cleaning.
- 4 HRSG Ansaldo Caldaie LP/HP drum boiler chemical cleaning, steam blowing.
- ACC air cooled condenser flushing and blowing.
- Turbine lube oil flushing, EH oil flushing, gland steam system blowing, vacuum pumps operation, building up vacuum.

**Dates** : From Oct. 2017 till Apr. 2018

**Employer** : [EGYPTROL](#), SIEMENS Subcontractor

**Project** : AZURA EDO Simple Cycle Power Plant (3x165MW GT)

**Job title** : PTW Engineer

**Job Description** :

- Senior Authorized Person, LOTO and PTW Engineer.
- Responsible for issuing work permits containing security and safety rules, non-conflicting with each other or safe operation of all systems in service and lock out tag out (LOTO) system.

**Dates** : From Mar. 2017 till Sep. 2017  
**Employer** : AC Boilers (Ansaldo Caldaie)  
**Project** : Suez Thermal Power Plant (1 unit x 650MW)  
**Job title** : Shift Charge Engineer  
**Job Description** :

- Cold/Hot Start-up and shutdown procedure, operation of boiler according to operation instructions.
- Maintain the boiler in proper operation.

**Dates** : From Mar. 2016 till Mar. 2017  
**Employer** : [EGYPTROL](http://www.egyptrol.com), AC Boilers (Ansaldo Caldaie) Subcontractor  
**Project** : Suez Thermal Power Plant (1x650MW)  
**Job title** : Field Commissioning & Operation Engineer  
**Job Description** :

- Boiler RAH, FDF and GRF lube oil flushing. Equipment solo run and heat run test, chemical cleaning, Solar fuel priming, Mazout fuel priming, Natural Gas blowing, Steam blowing, soot blower commissioning.
- Boiler field operator Log recording for boiler equipment Isolation and de-isolation of boiler equipment.

**Dates** : From Jun. 2015 till Mar. 2016  
**Employer** : Cairo Electricity Production Company (CEPC)  
**Project** : Mobile Gas Turbine (MGT) Cairo East Site (2 units x 25MW GE TM2500+)  
**Job title** : Shift Charge Engineer  
**Job Description** :

- 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.
- Reverse Osmosis unit operation producing Demineralized water used in fuel purification.
- 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 Jan. 2015 till May 2015  
**Employer** : Cairo Electricity Production Company (CEPC)  
**Project** : Shoubra El-Kheima Power Station  
(Steam Power Plant 4 units x 315MW Ansaldo boilers + Westinghouse turbines + Trans American Delaval Boiler Feed Pumps (2 turbine driven and 1 motor driven))  
**Job title** : Shift Charge Engineer  
**Job Description** : Receive instructions from Egyptian Electric Dispatch Center (EEDC) and maintain proper execution of instructions in the units. Perform 220KV maneuvers according to EEDC guidelines.

**Dates** : From Jun. 2011 till Dec. 2014  
**Employer** : Cairo Electricity Production Company (CEPC)  
**Project** : Shoubra El-Kheima Thermal Power Station  
**Job title** : Assistant Shift Engineer  
**Job Description** :

- Follow up junior operators of the units.
- Perform unit pretests, weekly and monthly tests, and permit to work orders for different maintenance departments.
- Give orders for connection, disconnection and tying 6.3KV and 400 V switchgears.
- Chemical analysis report recording.
- Water treatment plant Pre-treatment system.
- RO system of capacity 90000M3/day.
- Mixed bed ion exchanger of capacity 40000m3/day.
- Operation Engineer, Mechanical Test & Start-up Engineer.

**Dates** : From Apr. 2010 till May 2011  
**Employer** : Saudi Bin Ladin Group  
**Project** : King Saud Bin Abdul Aziz University, Riyadh – KSA  
**Job title** : Diesel Operator  
**Job Description** : Operator of Diesel Power Generation Plant.

**Dates** : From Sep. 2009 till Mar. 2010  
**Employer** : Cairo Electricity Production Company  
**Project** : El-Tebbin Thermal Power Station  
(2 units x 350MW) Ansaldo Caldaie boilers + Alstom turbines + KSB Boiler Feed Pumps (motor driven with VOITH variable speed coupling))  
**Job title** : Assistant Shift Engineer  
**Job Description** :

- Commissioning and Start-up Operation Engineer under supervision of PGESCo shift stuff.
- Boiler RAH, FDF and GRF lube oil flushing. Equipment solo run and heat run test, chemical cleaning, Steam blowing, soot blower commissioning.
- Turbine lube oil flushing, seal oil system, EH oil flushing, gland steam system blowing, vacuum pumps operation, water box vacuum pump operation, building up vacuum, rub check, bypass operation, valve testing, load rejection, house load.
- BOP lube oil flushing for BFP (KSP motor driven pump with VOITH

variable speed coupling), closed cooling system flushing, service water flushing, circulating water operation, chemical cleaning of condensate system, chemical cleaning of feed water system, equipment solo run and heat run test.

- By-pass operation, first synchronization, reliability run and performance.

**Dates** : From Jan. 2008 till Aug. 2009  
**Employer** : Cairo Electricity Production Company  
**Project** : Shoubra El-Kheima Power Station  
(Steam Power Plant 4 units x 315MW + 35MW Gas Turbine)  
**Job title** : CCR DCS Operator (Siemens SPPA T3000)  
**Job Description** :

- Cold/Hot Start-up and shutdown procedure, operation of units according to operation instructions.
- Maintain the unit in proper operation.

**Dates** : From Jan. 2007 till Dec. 2007  
**Employer** : Cairo Electricity Production Company  
**Project** : Shoubra El-Kheima Thermal Power Station  
**Job title** : Junior Control Panel Operator  
**Job Description** :

- Cold/Hot Start-up and shutdown procedure, operation of units according to operation instructions.
- Maintain the unit in proper operation.

**Dates** : From Jul. 2005 till Dec. 2006  
**Employer** : Cairo Electricity Production Company  
**Project** : Shoubra El-Kheima Thermal Power Station  
**Job title** : Field Engineer (Rover Operator)  
**Job Description** :

- Log recording for unit equipment isolation and de-isolation of unit equipment.
- BOP (firefighting system jokey & electric & diesel fire pumps, circulating water system with lubrication water system, service water system, travelling screen system, screen wash system, condenser vacuum system, water box vacuum air removal system, condensate system (INGERSOLL-RAND pumps), feed water system (2 BFPT TRANSAMERICA DELAVAL), closed cooling system, auxiliary boiler and auxiliary steam system, Fuel transfer Mazout storage system Mazout Daily system Mazout Booster pump system steam tracing system Natural gas system solar start-up system solar/natural gas Ignitor system, Re-boiler system field operator.
- Boiler Air/flue gases system (FDF, RAH Lingstrom, GRF), soot blower system.
- Turbine lube oil system, Electro-hydraulic system, steam seal system, Generator Hydrogen/ CO2 system, seal oil system, Bypass system field operator.