

# 102510-MEC-145OS-E-2008

## Mechanical Commissioning & Start-up Engineer

Holds a B. Sc. in Mechanical Engineering and has over 14 years' experience, including 13 years working in operation, commissioning and start-up at several Power Plants.

### PERSONAL DATA

Nationality : Egyptian  
Birth Date : 27/03/1984  
Gender : Male  
Marital Status : Married  
Residence : Assiut

### EDUCATION

: B. Sc. in Mechanical Engineering, Assiut University, 2008

### LANGUAGES

Arabic : Native Language  
English : Good

### COMPUTER SKILLS

: Windows, MS Office, Internet  
: Solid Works

### TRAINING COURSES AND CERTIFICATIONS

: PLC basic s7 (Mar. 2008).  
: Solid Works 2006 (Dec. 2007).  
: Training at Assiut Oil Refining Company (ASORC) (Aug./Sep. 2006).  
: Training course entitled combating pollution from Power Plants (Feb. 2010).  
: OSHA course at High Trade Group (Nov. 2013).  
: Mechanical SIEMENS Gas Turbine Maintenance Training (Aug./Sep. 2015).  
: Gas Turbine (DCS Operation T3000 Siemens) at SIEMENS COMPANY (Sep. 2015).

### CHRONOLOGICAL EXPERIENCE RECORD

**Dates** : From Aug. 2019 till now  
**Employer** : J&P AVAX Construction Co.  
**Project** : Bismayah Combined Cycle Power Plant phase 2 & phase 3 (4500MW), Iraq

**Job title** : Mechanical Commissioning & Start-up Engineer

**Job Description** : Commissioning & start-up for:

- GE gas turbine frame 9FA (4x250MW).
- CMI heat recovery steam generator (HRSG).
- GE steam turbine frame C7 (2x250MW).
- ENEXIO Air cooled condenser (ACC).

**Dates** : From Oct. 2018 till Jul. 2019

**Employer** : Power Generation Engineering and Service Company (PGESCO)

**Project** : South Helwan Supercritical Power Station Project 1950MW

**Job title** : Start-up, Commissioning & Operation Engineer

**Job Description** : Working as Start-up, Commissioning and Operation Engineer in South Helwan power project is designed to include 3x650MW steam thermal power plant (supercritical). It is comprised of three identical turbine generator units, each with a nominal rated capacity of 650MW, steam cycle thermal Mitsubishi turbine & main boiler ANSALDO CALDAIE with 32 burners natural gas fuel and mazout fuel as back up fuel and 10 burners solar fuel the units are capable of generating rated capacity using natural gas, residual (mazout) oil, or a combination of both the three-unit plant arrangement includes an enclosed Mitsubishi turbine building, an open AC boiler structure, a common control room, and all associated structures and facilities.

**Dates** : From Jan. 2018 till Aug. 2018

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

**Project** : BURULLUS COMBINED CYCLE POWER PLANT 4800MW, Damietta

**Job title** : Mechanical Commissioning & Operation Engineer

**Job Description** :

- Commissioning for cooling tower system.
- Commissioning for service water system PCB.
- Commissioning for closed cooling water system PGB.
- Commissioning for Condensate pump LCP.
- Chemical cleaning for HRSG.
- Steam blowing (BY PASS OPERATION).

**Dates** : From May 2017 till Jan. 2018

**Employer** : Eni

**Project** : ZOHR Gas Field Development Onshore 2800 MMSCFD Project, Port Said

**Job title** : Mechanical Commissioning Supervisor (Rotating & Static Equipment)

**Job Description** :

- Unit 190, Pig Receivers/Launchers.
- Unit 199, Slug Catchers.
- Unit 230, Flare, Vent and Blowdown.
- Unit 330, Gas Sweetening/Acid Gas Removal (AGR).
- Unit 331, Sulphur Recovery Unit (SRU).
- Unit 332, Tail Gas Treatment Unit (only Storage).
- Unit 334, Sulphur Forming Facilities.
- Unit 340, Dew Point Control.
- Unit 360, Sales Gas Metering System.
- Unit 390, Glycol for Hydrate Inhibition (MRU).

- Unit 430, Diesel Fuel.
- Unit 460, Compressed Air.
- Unit 470, Main Electric Power Generation.
- Unit 520, Service Water.
- Unit 522, Demineralized Water.
- Unit 525, Steam and Condensate.
- Unit 550, Closed Drains.
- Unit 565, Sour Water Stripper (SWS).
- Unit 570, Sanitary Discharge Treatment and Storage.
- Unit 730, Water/Foam Firefighting.

**Dates** : From Aug. 2016 till May 2017  
**Employer** : ELSEWEDY ELECTRIC (PSP)  
**Project** : Beni Suef, Egypt 4800MW Siemens SGT 8000H Combined Cycle Project  
**Job title** : Senior Mechanical Commissioning & Operation Engineer  
**Job Description** :
 

- Flushing for lube oil, hydraulic oil, seal oil and lifting oil pipe.
- Flushing for closed cooling water system, service water system and demineralized water system.
- Air blowing and hydro Test for natural gas pipe.
- Commissioning for firefighting system water and CO2.
- Start-up and shut-down procedures for GT.
- Commissioning for cooling tower system.
- Start-up for water treatment plant.

**Dates** : From Mar. 2016 till Aug. 2016  
**Employer** : Hyundai  
**Project** : JSTTP (4x750MW), Jeddah - KSA  
**Job title** : Start-up & Commissioning Engineer  
**Job Description** :
 

- Pre-Commissioning Requirements for all Boiler piping and equipment.
- Boiler equipment (FDF, GRF, BRP, GAH, IDF) commissioning such as Motor solo test, No load test and load test.
- Boiler piping and ducts commissioning including Hydrostatic test, chemical cleaning, Air blowing, Air balance test, Initial firing and Steam blowing.

**Dates** : From Apr. 2015 till Mar. 2016  
**Employer** : ELSEWEDY ELECTRIC (PSP)  
**Project** : Attaqa 650MW Siemens SGT5-2000E Simple Cycle Project, Suez  
**Job title** : Start-up & Commissioning Engineer  
**Job Description** :
 

- Flushing for lube oil, hydraulic oil and lifting oil pipe.
- Flushing for closed cooling water system.
- Air blowing and hydro test for natural gas pipe.
- Commissioning for firefighting system CO2.
- Start-up and shut down procedures for GT.

**Dates** : From May 2014 till Apr. 2015  
**Employer** : ANSALDO ENERGIA

- Projects** : BANHA & GIZA NORTH POWER PLANT (750MW & 3x750MW) – Egypt
- Job title** : Operation & Commissioning Engineer (Control Room)
- Job Description** :
- Receiving the systems from QC (Quality Control) & Construction.
  - Commissioning of mechanical systems (steam seal, lube. Oil, EH).
  - Scheduling the procedure of the different systems.
  - Preparation and execution of the pre-commissioning tasks.
  - Commissioning for the main turbine and operation.
  - DCS operation using ABB.
  - Full knowledge about lock out tag out system.
- Dates** : From Jan. 2010 till May 2014
- Employer** : UEEPC
- Project** : Assiut Thermal Power Plant (2x312MW)
- Job title** : Operation Engineer
- Job Description** :
- Start-up and shut-down procedures for thermal power plant 2x312MW (Cold, Warm, and Hot Start-up and normal or emergency shut-down).
  - Turbine & auxiliaries' operation (Toshiba & Ansaldo). And reporting the equipment condition during normal operation.
  - Boiler & auxiliaries' operation (Mitsubishi & Ansaldo) and reporting the equipment condition during normal operation.
  - Good working knowledge of firefighting system (water system, foam system and dry powder system locally and alarms control panel).
- Dates** : From Sep. 2008 till Jan. 2010
- Employer** : COCA COLA New Factory – Assiut
- Job title** : Production Engineer
- Job Description** :
- Participate in the factory equipments (Air compressors, Cooling units, Boilers and Water treatment station) and lines construction (Crones lines).
  - Operation and maintenance for glass bottles production lines and bottles washing machine.
- Field of experience** :
- Mechanical Engineer with 13 years' experience of power plant commissioning and start-up performing all the pre-commissioning, Cold, hot commissioning, trial run, acceptance testing, inspection / measurements activities in combined cycle, thermal and supercritical power plants including (Siemens Heavy duty Gas turbines, Siemens Steam turbines, GE Steam turbines, GE Gas turbines, MHPS Steam turbines, and HRSG) and also water treatment (Clarification, Dosing and Demi plant).
  - Good work experience in the field of power and energy gained from various academic studies, trainings, courses and work experience.
  - Good knowledge with oil and gas sector by getting work at Zohr Gas Field Development Project Onshore field.