

**105308-MET-1OS-E-2009**  
**Senior Mechanical Commissioning Engineer**

Holds a B. Sc. in Mechatronics 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 : 14/03/1985  
Gender : Male  
Marital Status : Married  
Residence : Alexandria

## EDUCATION

: B. Sc. in Mechatronics Engineering, Alexandria Higher Institute of Engineering & Technology (ALET), 2009

## LANGUAGES

Arabic : Native Language  
English : Excellent

## COMPUTER SKILLS

: Windows, MS Office, Internet  
: MATLAB 6.5, 7  
: C programming  
: Basic  
: Assembly  
: WebPages Design (front page)  
: CNC programming  
: PIK programming  
: AutoCAD  
: Photoshop

## TRAINING COURSES AND CERTIFICATIONS

- : Vibration mentoring course at Natcom:
- Basic Vibration Criteria and Displays Establishes the policies that create an effective ER function.
  - Vibration Measuring Instrumentation Addresses how to get the best from people.
  - Vibration Monitoring for Rolling Element Bearings vs. Fluid Film

- Bearings.
- Root Cause Failure Analysis.
- Considerations for the Selection of Online.
- Commissioning of Delivered Equipment / Monitoring Systems: (Installed) Vibration Monitoring Systems.
- Vibration Standard.
- Machine Faults Diagnosing.
- : Training in Japan by Mitsubishi at steam turbine DIA operation system in the following subjects:
  - Steam turbine process.
  - Process display, trends, and report function.
  - Alarm sequence display.
  - Analysis of main sub group control.
  - Plant starts up, load monitoring and changes.
  - Alarm and responds.
  - Understanding of function diagram and logic structure.
- : Training on Two ANSALDO CALDAIE Radiant Box Boiler (574.3 KG/S – 183.3 bar – 545 °C) (office and local) at Abu Qir Power Plant (New Project 2x650MW) (May 2012):
  - Purpose, contents of maintenance and commissioning.
  - Warranty of component and system.
  - Preparation work for maintenance.
  - Preparation work for commissioning.
  - Planning boiler maintenance & commissioning Box model.
  - Planning boiler maintenance & commissioning.
  - Documentation.
- : Project Management Professional (PMP).
- : Training on Two MITSUBISHI Turbines and Generator (2x650MW) at MITSUBISHI (office and local) at Abu Qir Power Plant (New Project 2x650MW) (Jan. 2012).
- : New Engineers Training at ABU QIR Training Center (May 2010).
- : Training in automotive engineering at Alexandria Higher Institute of Engineering & Technology (ALET) labs (summer 2008).
- : Training with Dr. Khaled Tawfik (sensors) at Alexandria Higher Institute of Engineering & Technology (ALET) labs (summer 2007).
- : Training at Al-Taawon Company for Petroleum Distribution (summer 2006).

## CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From Aug. 2019 till now
- Employer** : Elsewedy Electric PSP
- Project** : Assiut Supercritical Power Plant:
- Doosan steam turbines.
  - Ansaldo Caldaie supercritical Boiler.
  - Forced draft fan (FDF).
  - Gas recirculation fan (GRF).
  - Water treatment plant produce DM water, Service water.
  - Firefighting system.
  - Heavy fuel oil (HFO).
  - Fuel oil system.

**Job title** : Senior Mechanical Commissioning Engineer  
**Job Description** : Commissioning & start-up and operation contract CP-118:
 

- Desalination plant.
- Hydrogen generation unit (15m<sup>3</sup>/h).
- Service water pumps.
- Start-up & feed water turbine pump.
- Water Firefighting system.
- Aux boiler (2 burner feed water pump forced draft fan).
- Fuel oil system.
- Compressor system one angrysol nutral cooling & 3 Atlas Copco water cooling.

**Dates** : From Aug. 2016 till Jul. 2019

**Employer** : Elsewedy Electric PSP

**Project** : Beni Suef 4800MW CCPP

**Job title** : Senior Mechanical Commissioning Engineer

**Job Description** :

- Combined Cycle Plant commissioning & start-up and operation.
- Safe Start-up and Shutdown Operation for all Plant.
- Reviewing results and meeting with managers to discuss methods of improving the productivity of existing system.
- Fast Acting in Emergency Cases.
- Dealing with SPPA-T3000 controller hardware and software (control system Toolbox).
- Perform chemical cleaning and steam blowing for HRSG.
- Perform lube oil & seal oil flushing.
- Perform solo run test & mechanical run test for service water pumps.
- Perform air blowing for instrument air system.
- BOP operation (cooling water system, fuel forwarding system, firefighting system).
- Identifying, investigating and repairing system faults.
- Supervising the work of manufacturing engineers.
- Train new engineers and support staff.
- Follow all safety instructions.
- LOTO & PTW Issuer.

**Dates** : From May 2011 till Jul. 2016

**Employer** : WEST DELTA ELECTRICITY PRODUCTION COMPANY (WDEPC)

**Project** : New Abu Qir Thermal Power Plant (1300MW)

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

**Job Description** :

- Thermal Plant commissioning & start-up and operation.
- 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.
- Supervision for chemical cleaning and steam blowing.
- BOP operation (cooling water system, fuel forwarding system, firefighting system).
- Identifying, investigating and repairing system faults.
- Supervising the work of manufacturing engineers, trainee new engineers

- and support staff.
- Follow all safety instructions.
- Operation procedure writer.
- Outage Coordinator.

- Dates** : From Feb. 2010 till Apr. 2011
- Employer** : WEST DELTA ELECTRICITY PRODUCTION COMPANY (WDEPC)
- Project** : Abu Qir Thermal Power Plant
- Job title** : Operation Engineer
- Job Description** :
- Thermal Plant start-up and operation.
  - 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.
  - BOP operation (cooling water system, fuel forwarding system, firefighting system).
  - Identifying, investigating and repairing system faults.
  - Supervising the work of manufacturing engineers.
  - Follow all safety instructions.
  - Operation procedure writer.
  - Outage Coordinator.
  - Major inspection for 300MW unit (boiler, turbine, auxiliaries).
- Field of experience** :
- Dealing with SPPA-T3000 and ABB hardware and software (control system Toolbox) training courses as SGT5-2000E, Siemens gas turbine about "Operations (DCS), SPPA-T3000 (DCS), (Personal Safety & Protection and Introduction to Combined Cycle)".
  - PTW Siemens as (Permit Coordinator and Loto Engineer).
  - Trainer at WDEBC & ELSEWEDY PSP for commissioning and operation of power station.