

**101920-MEC-14OSY-E-2010**  
**Mechanical Commissioning & Start-up Engineer**

Holds a B. Sc. in Mechanical Power Engineering and has about 8 years hands-on experience working in operation, commissioning and start-up at Power Plants.

## PERSONAL DATA

Nationality : Egyptian  
Birth Date : 06/02/1989  
Gender : Male  
Marital Status : Married  
Residence : Cairo

## EDUCATION

: B. Sc. in Mechanical Power Engineering, Benha University, 2010

## LANGUAGES

Arabic : Native Language  
English : Very Good

## COMPUTER SKILLS

: Windows, MS Office, Internet  
: MS Project  
: MS Visio  
: AutoCAD 2D

## TRAINING COURSES AND CERTIFICATIONS

: On-site training about familiar system of gas turbine (operation, setting and maintenance) by Kharafi National Company (Mar. 2011).  
: Course on Cost Management for Engineers, by the American University in Cairo (AUC), Sep. 2010.  
: Course on Refrigerators and Air Conditioning System at Salesian Institute "DON BOSCO", Cairo (Nov. 2009).  
: Course on Hydraulic Fluid Power from Rexroth Bosch Group Company, Cairo (Jul. 2008).  
: AutoCAD 2D from Systems & Bio-Medical Engineering Dept., Faculty of Engineering, Cairo University (Oct. 2007).

# CHRONOLOGICAL EXPERIENCE RECORD

**Dates** : From Nov. 2017 till now  
**Employer** : Techint Engineering & Construction  
**Project** : South Helwan Supercritical Steam Turbine Power Plant (3x650MW)  
**Job title** : Mechanical Commissioning & Start-up Engineer  
**Job Description** :

- Commissioning and start-up for balance of plant (BOP) (CP-118) of South Helwan Supercritical Steam Turbine Power Plant (3x650MW).
- Chemical cleaning system for Condensate water system and feed water system.
- Preparation and water flushing for closed cooling system till normal operation.
- Lube oil flushing for feed water pumps lube oil system.
- Preparation with vendor for feed water pumps first start.
- Commissioning activity for re-boiler system, firefighting systems, fuel oil pumps and make up water system.
- Support Steam Blow Activity as remove internal parts for control valves and check valves.
- Walk through with construction department for the system handover.
- Make sure all systems are completed before taking over by comm. team and following up to remove the remaining open points through punch lists by installation team.

**Dates** : From Apr. 2017 till Oct. 2017  
**Employer** : GS Engineering & Construction  
**Project** : Egyptian Refinery Company (ERC) S.A.E., Mostorod - Egypt  
**Job title** : Rotating Equipment Engineer  
**Job Description** :

- Supported plant operations and maintenance on rotating equipment (pumps, compressors, turbines).
- Supervise the commissioning & start-up of new equipment
- Prepare for lube oil flushing for all skids (Compressors, Pumps and blowers).
- Assist the Senior Mechanical Engineer in the day to day performance of the work.
- Prepare purchase orders for temporary material & give a technical support to inventory administration.
- Familiarity with codes and standards applicable with the discipline such as ASTM, ASME, ANSI, API, Clients' Code and Standards.
- Lead work team in field within safety guide lines & standards.
- Perform Shaft Alignment using Laser and Dial indicator for rotating equipment and machine trains.
- Key strength includes leadership, creativity, troubleshooting skills, effective communicator (written and verbal), problem solving skills, and interface management skills.
- Ensure that all safety and precautionary requirements and procedures are followed during rotating equipment maintenance & commissioning activities.
- Prepare permits to work and Job safety analysis in conjunction with concerned parties for General maintenance activities.

**Dates** : From Aug. 2014 till Jan. 2017  
**Employer** : Alghanim International General Trading & Contracting Co. WLL  
**Project** : AZ-Zour Power Plant – Kuwait  
**Job title** : Mechanical Commissioning Engineer  
**Job Description** :
 

- Commissioning for BOP of 2 Siemens gas turbine frame SGT5-4000F.
- Support Lead Mechanical Commissioning Engineer in coordinating with testing subcontractor by providing necessary information to mechanical testing subcontractor, verifying their testing procedures and protocol formats, supporting them to start the testing activities at site, witnessing the tests, keeping record of the protocols.
- Conduct join walk downs with construction department for the system handover.
- Follow up and track the mechanical pre-commissioning as the direction from mechanical commissioning engineer and coordinate it with mechanical construction department.
- Commission the equipment or system in accordance with the approved procedures and site HSE standards.
- Lead the field commissioning activities.
- Coordinate with construction department for any design modification or other requirements.
- Mark up all mechanical/process drawing in case of changes and submitted the as built to engineering for approval and revision.
- Responsible for operation and maintenance of the mechanical system/equipment which is commissioned until end of commissioning phase.
- Troubleshoot the issues or problems found during testing or commissioning and achieve the solution in reasonable manner.

**Dates** : From Apr. 2013 till Jul. 2014  
**Employer** : Techint Engineering & Construction  
**Project** : El Ain El Sokhna Supercritical Steam Turbine Power Plant (2x650MW)  
**Job Description** : DCS Operator during commissioning and start-up period for balance of plant (BOP) as: Closed cooling system, feed water pump, Feed water heaters, Condensate pumps, air compressors, fire fighting systems, Auxiliary boiler, reboiler system, all solar and mazout pumps, heat tracing system, make up water system, feed water tanks, Sea water pumps, HVAC and ventilation system and all drain system. Also work during Steam blow period with abnormal and manual condition for operation.

**Dates** : From Mar. 2011 till Mar. 2013  
**Employer** : Kharafi National  
**Projects** :
 

- West Damietta 500MW (4x125MW), GE Gas Turbine Simple Cycle, Frame 9E (from Jan. 2012 till Mar. 2013)
- Damietta 500MW (4x125MW), GE Gas Turbine Simple Cycle, Frame 9E (from Mar. 2011 till Jan. 2012)

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

- Receiving the systems from QC (Quality Control) and Construction, then commissioning of mechanical systems, including: cooling water, lube Oil, cooling and sealing, starting means, Gas fuel, and liquid fuel.
- Supervise all pre-commissioning and commissioning activities.

- Make sure all the technical documents necessary for commissioning of different units are available with commissioning team.
- Professional usage and operation of Control system Mark VIe (1 year Disk Operator Engineer).
- After the whole system commissioning, we prepared for GT start-up which take some steps: turning gear, fire, acceleration, full speed no load (FSNL), mechanical speed test, synchronizing, load rejection, house load, black start and finally performance test. Then normal operation for the plant.
- Reporting to Shift Engineer for all malfunctions of equipment, instrumentation, modification of process parameters, quality of feed and products.
- Work in partnership with GE English speaking specialists.