

Holds B. Sc. and M. Sc. in Mechanical Power Engineering. Has over 15 years hands-on experience working in operation, commissioning, start-up and maintenance at several Power Plants.

## **PERSONAL DATA**

Nationality : Egyptian  
Birth Date : 12/12/1978  
Gender : Male  
Marital Status : Married  
Residence : Currently Libya

## **EDUCATION**

: B. Sc. in Mechanical Power Engineering, Alexandria University, 2001  
: M. Sc. in Mechanical Power Engineering, Alexandria University, 2007  
: Registered for Doctorial Degree since Jan. 2008 from Automatic Control section – Mechanical Power Dept. – Alexandria University

## **LANGUAGES**

Arabic : Native Language  
English : Fluent

## **COMPUTER SKILLS**

: Windows, MS Office (Word, Excel, Access), Internet  
: MS Project  
: AutoCAD  
: CFD  
: EES (Engineering Solving Eq.)  
: Visual Basic  
: Matlab

## **TRAINING COURSES AND CERTIFICATIONS**

: Obtained training on ToolBox (Mark 6e and Mark 6es), in GE – Belfort Training Center (Apr. 2016).  
: Electric generator 290 MVA MILCO on-site.  
: Operating and maintenance of gas turbine frame M701F – 750MW Mitsubishi on-site.  
: Ebara pump training (circulating pump, raw water pump, service water pump, HP/IP Feed water pump, demi water pump), Toshiba training.

- : Toshiba training (on-site):
  - Services Gas system (H2, N2 & CO2) (Mar. 2010).
  - HVAC system & ventilation fans (Mar. 2010).
  - Horizontal pumps (centrifugal pump double suction) & vertical sump pumps (Flow Tech Company) (Mar. 2010).
  - Cranes training (Konecrane Company) (Apr. 2010).
- : Combined Cycle 750MW (2x250MW Mitsubishi frame M701F, Alstom steam turbine & 2 HRSG NEM) in North Cairo (from Dec. 2008 till Jan. 2009).
- : Operating and maintenance of gas turbine frame M701F – 750MW at Takasago City – MHI – Japan (2008).
- : Electric generator 290 MVA at Kobe City – MHI – Japan (2008).
- : English Toefl program, Alexandria University (2007).

## CHRONOLOGICAL EXPERIENCE RECORD

**Dates** : From May 2016 till now  
**Employer** : JDR Energy Company for General Electric (GE) Belfort  
**Project** : Libya FAST TRACK PROJECT – Khoms – 2x250MW Gas Turbine frame 9FA  
**Job title** : Lead Control TA

**Dates** : From Mar. 2015 till Dec. 2015  
**Employer** : IEPC Company for General Electric (GE) Belfort  
**Project** : Assiut Fast Track Project / Egypt (8x125MW)  
**Job title** : Commissioning Manager  
**Job Description** : Commissioning & start-up for GE gas turbine 9E:
 

- Make coordination between all GE departments and the partner (ORASCOM).
- Make review for the commissioning activities and make the required modification.
- Follow the electrical and control loop check and progress.
- Make daily activities and distribute the activities.
- Follow-up pre-commissioning (lube oil flushing, control oil flushing, gas line, closed cooling system ...).
- Follow-up commissioning & start-up for GT AUXILIARY.
- Follow up the project daily works (piping, welding, and all auxiliary equipment).
- Follow up commissioning & start-up for firefighting system for gas turbine portion.
- Line up for (lube oil, control oil, air and fuel gas, instrument air, ...) before initial fire.
- Follow the erecting and commissioning activities for 2 Fuel oil treatment plants (FOTP) with the contractor NEC and its Sub-contractor CAMERON.
- Make coordination with GE engineering to make modification for some problems in Mark IVe software.

**Dates** : From Apr. 2014 till Mar. 2015  
**Employer** : Mass Group  
**Project** : Erbil Combined Power Plant - Iraq Kurdistan Region  
**Job title** : Commissioning Manager  
**Job Description** : Commissioning for two modules combine cycle each module (4 HRSGs CMI, steam turbine GE and air condenser cooler GEA):

- Lead and coordinate Commissioning activities.
- Lead and coordinate Operation activities.
- Prepare commissioning schedule based on the quantum of job and duration for each activity as well as prioritize system requirements.
- Supervise and perform flushing, chemical cleaning and steam blow.
- Planning of 'on site' activities and allocation of available manpower on a daily basis.
- Making commissioning procedure for condensate system, feed water system, demine water system, closed cooling system, firefighting system, water treatment system, lube, lifting & hydraulic oil systems.
- Participate in pre-construction Engineering reviews and project planning.
- Actively displays initiative in the development and modification of existing design with the responsibility for meeting customer requirements and company internal requirements for mechanical scope.
- Support the technical development of the Mechanical Engineering and Design functions through the evaluation and introduction of new design and analysis capabilities.
- Demonstrated ability to work independently or to lead a team to complete projects within required timeframes.

**Dates** : From Apr. 2013 till Feb. 2014  
**Employer** : ABB  
**Project** : Dohuk Gas Power Plant - Iraq Kurdistan Region  
**Job title** : Commissioning Manager  
**Job Description** :

- Commissioning & start-up for GE gas turbine 9E.
- Make coordination between all ABB departments and the client
- Follow-up pre-commissioning (lube oil flushing, control oil flushing, gas line, closed cooling system ...).
- Follow-up commissioning & start-up for GT AUXILIARY
- Follow up the project daily works (piping, welding, and all auxiliary equipment).
- Follow up commissioning & start-up for firefighting system for gas turbine portion.
- Line up for (lube oil, control oil, air and fuel gas, instrument air, ...) before initial fire.

**Dates** : From Sep. 2012 till Mar. 2013  
**Employer** : Ansaldo Caldaie Company  
**Project** : Abu Qir Thermal Power Plant units 6, 7 (2x650MW gas/oil)  
**Job title** : Commissioning Engineer  
**Job Description** : Mechanical commissioning and operation for 2 Ansaldo Caldaie steam boilers.

**Dates** : From Jun. 2012 till Sep. 2012  
**Employer** : ABB  
**Project** : Sulimanyah Gas Power Plant (Iraq Kurdistan Region)  
**Job title** : Commissioning Manager  
**Job Description** :

- Commissioning & start-up for GE gas turbine 9FE.
- Make coordination between all ABB departments and the client.
- Follow up pre-commissioning (lube oil flushing, control oil flushing, gas line, closed cooling system ...).
- Follow up commissioning & start-up for GT AUXILIARY.
- Follow up the project daily works (piping, welding, and all auxiliary equipment).
- Follow up commissioning & start-up for firefighting system for gas turbine portion.
- Line up for (lube oil, control oil, air and fuel gas, instrument air, ...) before initial fire.

**Dates** : From Dec. 2011 till Jun. 2012  
**Employer** : [EGYPTROL](#), Commissioning Subcontractor for ANSALDO ENERGIA  
**Project** : 6th October Power Station (600MW)  
**Job title** : Commissioning & Operation Team Leader Engineer  
**Job Description** :

- Commissioning & start-up for Ansaldo gas turbine AE94.2.
- Follow up pre-commissioning (lube oil flushing, control oil flushing, gas line, closed cooling system ...).
- Follow up commissioning & start-up for GT AUXILIARY.
- Follow up the project daily works (piping, welding, and all auxiliary equipment).
- Follow up commissioning & start-up for firefighting system for gas turbine portion.
- Line up for (lube oil, control oil, air and fuel gas, instrument air, ...) before initial fire.
- Follow all GT test (Over speed, Runback, Electrical tests, ...etc.).

**Dates** : From Jun. 2010 till Nov. 2011  
**Employer** : Kharafi National Company  
**Project** : Shuaiba Combined Power Plant & Water Desalination, Kuwait  
**Job title** : Senior Mechanical Engineer  
**Job Description** :

- Routine maintenance for GE frames 9FA gas turbine and the auxiliaries.
- Doing maintenance for gas turbine such as Combustion inspection, including:
  - Combustor basket inspection visual & penetration test (VT & PT).
  - Fuel nozzle inspection (VT & PT) and spray test.
  - Transition piece inspection (VT & PT) and alignment with combustor basket.
  - Cross flame tube inspection (VT & PT).
  - Combustor basket top hat inspection (VT & PT).
  - IGV, OGV & compressor blades row 1 inspection (VT).

- Check and measure the tip clearance of the row 1 compressor blades at 10 points.

**Dates** : From May 2008 till Jun. 2010  
**Employer** : Middle Delta Electricity Production Company (MDEPC)  
**Project** : El-Atf Combined Cycle Power Station (750MW)  
**Job title** : Instrument & Control Engineer  
**Job Description** :
 

- Make analysis of fluid systems and thermal systems.
- Study the contract, design review and review commercial guarantees.
- Make tests for all measuring instruments, make loop check & function test for all equipments.
- Make combustion tuning for gas turbine M701F Mitsubishi.
- Make fuel gas valves calibration.

**Dates** : From Feb. 2002 till May 2008  
**Employer** : Middle Delta Electricity Production Company (MDEPC)  
**Project** : Mahmoudia Power Station  
**Job title** : Shift Charge Engineer  
**Job Description** :
 

- Unit start-up and shutdown procedures.
- Monitoring parameters.
- Testing the equipments.
- Isolation & de-isolation procedures.
- Safety work permit system.
- Follow up all day work and maintenance for any equipment.

**Field of experience** :
 

- Recruited as a COMMISSIONING MANAGER by IEPC Company for General Electric (GE) Belfort – EGYPT FAST TRACK PROJECT - Assiut – 8x125MW Gas Turbine frame 9E.
- Assistance for erecting and commissioning activities for 2 Fuel oil treatment plants (FOTP) with the contractor NEC and its Sub-contractor CAMERON.
- Worked in commissioning, start-up & maintenance of combined cycle power plants, have experience in both mechanical and control systems (DCS, Mark IVe), by integrating knowledge in both mechanical and control can make analysis for a lot of commissioning problems.
- Have extensive experience in GE software (Mark IVe) and I&C commissioning activities such as configure system network, CPU download and equalizing, continuity, hot/cold loop check, fuel gas valves calibration, liquid fuel valves calibration, IGV calibration, instruments calibration and function test) .with coordination with GE engineering; I made a great modification in Mark IVe software to solve problem in liquid fuel system.
- Have experience in design review, review commercial guarantees, make analysis of fluid systems and thermal systems, test expectations/requirements, and develop performance test procedures.
- Have strong leadership and dynamic interface in a team environment and working with others to achieve the best possible output from all functional viewpoints.
- Make development and modification of existing design with the

responsibility for meeting customer requirements and company internal requirements for mechanical scope.

- Support the technical development of the Mechanical Engineering and Design functions through the evaluation and introduction of new design and analysis capabilities.
- Work independently or to lead a team to complete projects within required timeframes.
- Providing technical advice to staff members, and embracing a culture that values team work.
- Knowledgeable in Piping Fabrication, Installation and Testing.
- Knowledgeable in Transformers Testing (insulation resistance, winding resistance, Ratio test, protection devices test, Tan Delta and oil test).
- Strong understanding of thermodynamics and thermodynamic cycles as I already obtained the master degree from mechanical department.
- Worked as Senior Mechanical Engineer, made maintenance for many types of pumps, Gas turbines and auxiliaries.
- Registered for PhD degree to study the combustion stability in gas turbine using CFD program so he can do combustion tuning for Mitsubishi gas turbine M701F.

EGYPTROL BACKLOG