

Holds a B. Sc. in Mechanical Power Engineering. Has over 9 years hands-on experience with excellent mechanical skills and working to strict deadlines within technically demanding environments. Major projects of power plant including installation for gas turbine, steam turbine, boilers and related auxiliaries. All aspects of commissioning, start-up and operation for all mechanical equipments (static and dynamic) to be according client contract specification and manufacture requirement. Understanding of P&ID drawings and pipe line installation commissioning, under & above ground piping, pumps and valves.

## **PERSONAL DATA**

Nationality : Egyptian  
Birth Date : 04/10/1980  
Gender : Male  
Marital Status : Married  
Residence : El-Behira

## **EDUCATION**

: B. Sc. in Mechanical Power Engineering, Suez Canal University (Port Said Branch), 2005

## **LANGUAGES**

Arabic : Native Language  
English : Very Good

## **COMPUTER SKILLS**

: Windows, MS Office, Internet  
: AutoCAD

## **TRAINING COURSES AND CERTIFICATIONS**

: Operation & maintenance of gas turbine GE at El-Mahmoudia site.  
: Operation of gas turbine, Mitsubishi Heavy Industries at El-Atf site.  
: Operation of steam turbine, Ansaldo Energia at El-Atf site.  
: HRSG operation and maintenance, NEM industrial & utility boilers, El-Atf site.  
: HRSG controls and instrumentation, NEM industrial & utility boilers, El-Atf site.  
: HRSG water chemistry and safety, NEM industrial & utility boilers, El-Atf site.

: Maintenance and operation of horizontal pumps & sump pump, Toshiba, EI-Atf site.

## CHRONOLOGICAL EXPERIENCE RECORD

**Dates** : From May 2016 till now  
**Employer** : EI-Sweedy Electric PSP  
**Project** : Beni Suef Combined Cycle 4800MW  
**Job title** : Lead Mechanical Engineer  
**Job Description** :

- Mechanical Activities for two units of Siemens Steam Turbine 400MW:
  - Install bearing pedestal and make alignment for bearings.
  - Install vertical and horizontal guide pin for LP casing.
  - Install end wall for outer casing of LP turbine.
  - Install lower part of LP turbine and make alignment for turbine diaphragm.
  - Install HP-IP turbine and its control stop valves.
  - Install condensate pump and feed water pump and make alignment.
  - Install LP Rotor Shaft and alignment with HP-IP turbine.
  - Install steam turbine generator.
  - Make alignment of LP inner casing, shaft, swiping test, Bump check.
  - Make alignment of HP Turbine, swiping test, Bump check.
- Mechanical Activities for two units of Siemens Gas Turbine 400MW:
  - Install compressor and turbine supports.
  - Install Gas Turbine and make Pre-alignment & final alignment.
  - Install Generator on its foundations.
  - Make pre-alignment and final alignment for turbine and generator.
  - Make shaft coupling holing and run-out test.
  - Open the bearing of turbine and install return and supply lube oil pipe, install jacking oil tubes.
  - Install shaft seal and adjust its gaps.
  - Adjust displacement of thrust bearing and shaft position.

**Dates** : From Nov. 2015 till May 2016  
**Employer** : INITEC ENERGIA CP-118  
**Project** : Suez Thermal Power Plant 650MW  
**Job title** : Lead Mechanical Commissioning Engineer  
**Job Description** :

- Preparing the temporary piping and make the chemical cleaning activate for condensate and feed water systems.
- Flashing of startup feed water pump Lube oil system.
- Make restoration for feed water and condensate system after chemical cleaning.
- Make alignment for condensate, start-up feed water pumps, circulating water Pumps and closed cooling pumps.
- Preparing to steam blowing.
- Preparation and oil flushing for turbine driven feed water pump to start-up.

**Dates** : From Mar. 2015 till Oct. 2015  
**Employer** : EI-Nour for Construction & Supplier Co.  
**Project** : Mahmoudia Simple Cycle 330MW (Fast Track Project)  
**Job title** : Construction Manager  
**Job Description** :

- Construction & ERECTION TWO GAS TURBINES (ANSALDO ENERGIA 330MW) FRAME (AE-94.2).
- Lifting & supported the turbine & generator.
- Install the gas turbine exhaust diffuser & Stack inlet cone – vertical duct – transition.
- Install the air intake (lower & upper part - Duct - filter module -silencer - weather hood).
- Make shaft Alignment between turbine & generator.
- Gas turbine & generator enclosure.
- Making lifting plan for all heavy lifting.
- Make shaft Alignment for pumps.

**Dates** : From Mar. 2014 till Mar. 2015  
**Employer** : PETROJET  
**Project** : EGYPTIAN ETHYLENE CO. Petrochemical Project (ALEXANDRIA - AMRIA)  
**Job title** : Senior Piping Engineer  
**Job Description** :

- Supervision for carbon steel pipe fabrication & welding processes.
- Supervision for steel alloy pipe fabrication & welding processes.
- Supervision for stainless steel pipe fabrication & welding processes.
- Supervision for pipe support fabrication & installation.
- Preparation of Isometrics / Weld Maps.
- General Control of Construction activities (Mechanical).
- Making a Plan and Control for All Activity (Piping and Equipment Installation).
- Performing Visual Inspection.

**Dates** : From Jun. 2013 till Mar. 2014  
**Employer** : ANSALDO CALDAIE CP-105  
**Project** : BANHA 750MW Combined Cycle  
**Job title** : Construction & Commissioning Engineer  
**Job Description** : Responsible for HRSG:

- Construction & Piping Engineer.
- Hydrostatic pressure test for (Piping – Drums – Valves).
- Perform the chemical cleaning according to procedures for condensate System & feed water system.
- Perform the steam blow-out activities for HP steam, HRH & CRH steam, LP steam lines.
- Installing many control valves after steam blow-out finished.
- Commissioning the recirculation of condensate preheat.

**Dates** : From Apr. 2009 till Jun. 2013  
**Employer** : Middle Delta Electricity Production Company  
**Project** : EI-Atf Combined Cycle Power Station (750MW)

- Job title** : Construction, Commissioning, Start-up & Operation Engineer
- Job Description** :
- As Owner Mechanical Construction Engineer, responsible for:
    - General Control of Construction activities (Mechanical of two gas turbines and one steam turbine).
    - Review of Isometrics / Weld Maps.
    - Control of Spool Fabrication activities.
    - Assisting Piping Engineer in Pipe Engineering activities.
    - Making a Plan and Control for All Activity (Piping and Equipment Installation).
    - All Types of Fabrication, Welding Methods, Procedures and Materials.
    - Performing Visual Inspection.
  - As Owner Representative Mechanical Engineer, responsible for:
    - Gas Turbine Large Frame.
      - Commissioning, start-up and operation of gas turbine Mitsubishi (2x250MW) M701F and it's related auxiliaries such as:
        - Lube oil unit.
        - Hydraulic oil unit.
        - Purge air compressor.
        - GT by pass damper.
        - Fuel gas compressor.
        - Vibration monitoring system.
        - Turbine cooling air cooler (TCA).
        - Hydrogen filling system for cooling generator.
        - Hydrogen releasing system by using air after using CO2.
        - CO2 fire fighting system.
      - Participated in gas turbine inspection (M701F) for unit 1, 2:
        - 8000 equivalent operation hours combustion chamber inspection (Jan. 2010).
        - 16000 equivalent operation hours gas turbine hot gas path inspection (Oct. 2010).
        - 24000 equivalent operation hours combustion chamber inspection (Oct. 2011).
        - 32000 equivalent operation hours gas turbine hot gas path inspection (Oct. 2012).
        - 40000 equivalent operation hours combustion chamber inspection (Nov. 2013).
      - Participated in gas turbine fuel oil piping & water injection piping flushing.
      - Participated in major overall for natural gas compressor (centrifugal compressor).
      - Participated in major overall for purge air compressor (reciprocating compressor v- type).
    - NEM HRSG boilers:
      - Construction & Piping Engineer.
      - Perform the chemical cleaning according to procedures for condensate system & feed water system.
      - Perform the steam blow-out activities for HP steam, HRH & CRH steam, LP steam lines.
    - Commissioning, start-up and operation of steam turbine ANSALDO (250MW) and it's related auxiliaries such as:
      - Lube oil system.

- Hydraulic oil system.
- Jacking oil system.
- Hydrogen filling system for cooling generator.
- Vacuum system.
- STF condenser.
- Seal oil system.
- For steam turbine:
  - Install bearings pedestal and align it.
  - Install HP turbine, IP turbine, LP turbine.
  - Install bearings of the three turbines and sitting it.
  - Make alignment between three turbines and honing.
  - Make final alignment for generator.
  - Install all auxiliaries of steam turbine unit.
- Also construction, commissioning and testing for the following systems:
  - Condensate system & condensate pumps.
  - Feed water system (LP, HP/IP) FWP's.
  - Circulating water system & CW pumps.
- Perform the sequence test for the following systems:
  - Condensate system & condensate pumps.
  - Feed water system (LP, HP/IP) & FWP's.
  - Circulating water system & CW pumps.
  - Service water system.
  - Closed cooling system.
  - Instrument and service air system.
  - Potable water system.
  - Cooling water intake equipment (sluice gate, traveling screen).
- Record the commissioning data for all systems mentioned previously.
- Report and advise the daily activities for all systems mentioned previously.
- Lifting test for cranes by water bag (static / dynamic).
- As Owner Operation Engineer, participated in:
  - 4 x gas turbine (ci) combustion chamber inspection, which including disassemble and assemble (first inspection after 8000 equivalent operation hour in Feb. 2010 for the two gas turbines, second inspection after 24000 equivalent operation hour in Jun. 2011).
  - 4 x gas turbines (hot gas path inspection) after 16000 equivalent operation hours in Dec. 2010 and 32000 hrs equivalent operation hours in Dec. 2012.
  - Both including the following:
    - Disassembled the combustion chamber piping & instrument, top hat combustor basket, transition piece, cross flame tube.
    - NDT (nondestructive test), Inspection the crack of the combustion chamber by:
      - Cleaner.
      - Developer.
      - Penetrade.
    - Clogged test by using burner cleaning unit for fuel oil nozzle.
    - Removing any defected parts in combustion chamber.
  - Participated in gas turbine fuel oil piping & water injection piping

- flushing by acceptance 635 mesh.
- Participated in major overall for natural gas compressor (centrifugal compressor).
- Participated in major overall for purge air compressor (reciprocating compressor v-type).
- Conducting all preparation steps of units in field to realize permissive for start-up from control room such as filling line of water free of bubbles, all safety valves ready, coolers in service, all skids of hydraulic and pneumatic ready, fire fighting ready, all electrical power source ready position of motorized valves in auto mode and ready to work locally, all manual valves before and after control and motorized valves shall be open, etc.
- Responsible of start-up, operation, remarking alarms of units from control room and solve operation problems.
- Survey in field for more check and confirmation of safe operation of equipment.

- Dates** : From Feb. 2008 till Apr. 2009
- Employer** : Middle Delta Electricity Production Company
- Project** : Mahmoudia Combined Cycle Power Station (300MW)
- Job title** : Operation Engineer
- Job Description** :
- Conversant with:
    - Unit start-up and shutdown procedures.
    - Monitoring parameters.
    - Testing the equipments.
    - Isolation and de-isolation procedures.
    - Safety work permit system.
  - The above mentioned is done for:
    - 8 GE gas turbines 25MW each (MS5001frame P) and it's related auxiliaries.
    - 8 NEM HRSGs.
    - 2x58 GE steam turbine and it's related auxiliaries.
    - Condensate system & condensate pumps.
    - Circulating water system & circulation pumps.
    - Feed water system & pumps.
    - Sump pumps.
  - Participated the following maintenance sections for steam turbine GE (58 MW), Mark V:
    - Make major inspection.
    - Pumps maintenance and balancing.
    - Overall maintenance for condensate pumps (10 stages), vertical pumps axial type.
    - Maintenance for travel screen and main cooling pumps, hydraulic power unite, air compressors and steam turbine auxiliaries such as ejectors, lubrication system and condenser.
- Field of experience** :
- Gas turbine construction, commissioning, start-up and operation.
  - Boiler (HRSG) commissioning, start-up and operation.
  - Steam turbine auxiliaries (condenser, vacuum system, tube cleaning system and debris filter) commissioning and start-up.
  - Construction, commissioning and start-up for combined cycle auxiliaries

such as closed cooling system, Condensate system, feed water system and circulating cooling system.

- Piping & Pipe Support Engineer.
- Mechanical Commissioning Active (chemical cleaning – steam blow – pump maintenance).
- Technical ability in the field and in the office.
- Adaptable, with ability to have valuable input to many aspects of a project.

EGYPTROL BLACKLIST