

Holds B. Sc. and M. Sc. in Mechanical Engineering and has over 14 years experience, including 12 years of successfully overseeing and completing projects from conception to completion. He has good experience in the commissioning, maintenance and operation of turbine and auxiliaries. He is familiar with International code like ASME, ASTM, API & NFPA.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 09/08/1984
Gender : Male
Marital Status : Married
Residence : Alexandria

EDUCATION

: B. Sc. in Mechanical Power Engineer, Alexandria University, 2008
: M. Sc. in Mechanical Engineering, Alexandria University, 2013

LANGUAGES

Arabic : Native Language
English : Fluent

COMPUTER SKILLS

: Windows, MS Office (Word, Excel, Power Point), Internet
: AutoCAD 2D & 3D
: MATLAB
: Elite design software "Fire Sprinkler System Design & Hydraulic Calculation"
: HAP
: Hydraulic design circuit and simulation programs, mainly Automation Studio
: Process modeling simulation programs, mainly HYSYS

TRAINING COURSES AND CERTIFICATIONS

: Infinity Training & Development, Alexandria, Egypt (Feb./Mar. 2014) training on HVAC system (Design).
: Infinity Training & Development, Alexandria, Egypt (Feb. 2014) training on firefighting system (Design, Installation and Maintenance).
: Preparation course for API 570 authorized piping inspector (May/Jun. 2013).

- : American Society for Non-destructive Testing (ASNT) recommendation No.: SNT-TC-IA and Alfa Inspection and Engineering Consultation "AIEC", Alexandria, Egypt Training on NDT Method: Radiographic Testing, Level of Qualification: (II) Two, Product Form: Welding, Forging and Casting (Feb. 2013).
- : On-shore maintenance and operation training at Mitsubishi Heavy Industries, Ltd. Nagasaki Shipyard & machinery (from Feb. till Apr. 2012).
- : Steam Distribution, condensate Removal and Steam control training by Spirax Sarco Company for 3 days (Sep. 2008).
- : Pneumatic circuits training by SMC Company for 4 days (Oct. 2008).
- : Fluid power systems and components course.
- : Manage and operate thermal power plant course.

CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From Mar. 2021 till now
- Employer** : MPW (Mitsubishi Power Systems Company)
- Project** : South Helwan Steam Power Plant 3x670MW Supercritical
- Job title** : Warranty Engineer
- Job Description** :
- Preventive maintenance and make a Scheduled.
 - Follow-up complete major overhaul for steam turbine, generator, condenser & main valves.
 - Preparing all equipment to Start-up and load test after overhaul.
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- Dates** : From Feb. 2018 till Feb. 2021
- Employer** : MHPS (Mitsubishi Hitachi Power Systems Company)
- Project** : South Helwan Steam Power Plant 3x670MW Supercritical
MHPS Frame "TC4F-40.5" Steam turbine 670MW (Three-cylinder HP-IP, LP1 and LP2 with 24KV generator hydrogen and stator cooling water system and turbine auxiliaries)
- Job title** : Commissioning & Operation Engineer
- Job Description** :
- Preparing work permits, lock out and tag out.
 - Preparing all equipment (pre-commissioning solo runt, heat run test, inspection main oil tank, lube oil piping, first filling, ...).
 - Commissioning Lube oil system flushing, control oil flushing, Seal oil flushing, steam blow, initial turning gear, adjustment and check for steam turbine control valve (MSV, GV, RSV & ICV), vacuum up test, first filling hydrogen gas in generator, bypass operation....
 - Initial start-up for Steam turbine, over speed test, Synchronization, Valve test.
 - Unit Stabilization (Operation) followed by Performance Guarantee (PG) Test & Reality Test (RT) Role, Unit Controller, Responsibility - Plant operation, prompt and timely response during emergency, Coordinate start-up/shutdown activities, successful execution of RT & PG test.
 - Follow-up performance and operation of the equipment.
 - Preventive maintenance as pre-scheduled.

Dates : From Oct. 2017 till Feb. 2018

Employer : Delta Contracting Company

Project : West Damietta Combined Cycle Add-on Power Plant 250MW
GE FRAME 9E (CTGs 4x125MW), 4 HRSGs & Steam turbine 250MW GE FARME D202

Job title : Construction & Commissioning Engineer

Job Description :

- Install the Steam Turbine Generator (GE D202).
- Install Piping System (Main Steam Critical System – Non-Critical System – Lube System).
- Hydro-test for Critical & Non-critical system, Lube oil system hydro test.
- Oil flushing to Main turbine - Lube oil system & preparation to steam blow.
- Designing maintenance strategies, procedures and methods.
- Carrying out routine scheduled maintenance work and responding to equipment faults.
- Diagnosing breakdown problems.
- Fitting new parts and making sure equipment is working correctly.
- Carrying out quality inspections on jobs.
- Arranging specialist procurement of fixtures, fittings or components.
- Controlling maintenance tools, stores and equipment.
- Follow-up performance and operation of the equipment.
- Dealing with emergencies, unplanned problems and repairs.
- Verify the mechanical reports and record, submit to the management.
- Writing maintenance strategies to help with installation and commissioning guidelines.
- Ensuring there is continuous cover of the machinery and equipment in case of breakdowns.
- Verify the documents/ materials received are in accordance with the standards, manufactured / fabricated in accordance with the specification.
- Supervisor on receipt, inspection, checking and storage of materials.
- Responsible for carrying out Mechanical Clearance, Conducting Hydro and Pneumatic tests, fulfilling commissioning and Pre-Commissioning requirements for construction the project.
- Improving health and safety policies and procedures.

Dates : From Dec. 2010 till Sep. 2017

Employer : West Delta Electricity Production Company

Project : New Abu Qir Power Plant 2x650MW
Abu Qir Thermal Power Plant consists of the following major Components: Two steam turbine generating units 650MW each, two dual fuel fired steam generators. Desalination Plant: consists of 2 units using MED technology with capacity of 10,000 m3/day.

Job title : Mechanical Maintenance Engineer

Job Description :

- Installation & Commissioning Engineer (from 2010 till 2012):
 - Ensure assigned jobsite operations follow specifications, completed on schedule, within budget and to quality standards.
 - Provide technical and administrative direction to lead field engineer, construction engineers, coordinators and others, Jobsite contacts

- are with contractors, project management and any jobsite personnel assigned within area of responsibility.
- Office contacts are with all levels of construction and engineering for following packages:
 - ❖ CP-106: Steam Turbine Generator and Condenser, Consortium of Mitsubishi Heavy Industries, Ltd, and Toyota Tsusho Corporation.
 - ❖ PO-109: Pumps and Drives, SULZER.
 - ❖ PO-110: Feed water Heaters, Consortium of LG International Corp. and BHI CO, LTD.
 - ❖ PO-112: Critical Piping, Seonghwa Industrial Co., Ltd, South Korea.
 - ❖ PO-115: Desalination Plant, Aquatech International Corporation, Canonsburg.
 - ❖ CP-118: Mechanical equipment / Pipe installation, Consortium of AVIC and ZTPC.
- Maintenance Engineer (from 2012 till 2017):
 - Monitoring & Supervision for Maintenance of Rotating & Static Equipment such as:
 - Rotating Equipment:
 - ❖ Steam Turbine and generator: Mitsubishi heavy industries, LTD (2x650MW) (Three-cylinder HP-IP, LP1 and LP2 with 24KV generator hydrogen and stator cooling water system and turbine auxiliaries).
 - ❖ Pumps (Centrifugal, Axial Flow & Positive Displacement).
 - ❖ Air Compressors (Rotary – Centrifugal), Air Receiver & Air Dryers.
 - ❖ Reciprocating engine (Diesel generator & diesel fire pump).
 - ❖ Hydrogen compressors.
 - Static Equipment:
 - ❖ Piping System (Main Steam Critical System – Non-Critical System – Lube System – Chemical Feed System).
 - ❖ Heat Exchangers (Heaters – Coolers).
 - ❖ Different types of Valves (Gate, Butterfly, Check, Ball and Control Valve).
 - ❖ Pressure vessels (Reboiler system).
 - ❖ Hydrogen generating and storage plant system.
 - ❖ Nitrogen & carbon dioxide bulk storage system.
 - ❖ Tanks (Light Fuel Oil, Lubrication Oil, Water, Chemical Tanks).

Dates : From Jun. 2010 till Dec. 2010
Employer : Mediterranean Engineering Development Company
Job title : Technical Office Engineer
Job Description :

- Design and supply of materials (Cable Tray, Support, Steel Bridge, Stainless Steel, Firefighting and Air Conditioning Ducts).
- Resolve customer problem.

Dates : From Aug. 2008 till Apr. 2009
Employer : International Company for Agro-Industrial Projects (Almarai-Beyti)
Job title : Mechanical Maintenance Engineer

- Job Description** :
- FFS Machine (Forming, Filling & Sealing with technicians from Germany).
 - Process system (Pumps, Heat Exchangers, Tanks and Valves) & process machines.