

Holds B. Sc. and M. Sc. in Mechanical Power Engineering. Has about 11 years hands-on experience working in operation, commissioning, maintenance and construction.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 07/03/1983
Gender : Male
Marital Status : Married
Residence : Currently Qatar

EDUCATION

: B. Sc. in Mechanical Power Engineering, Alexandria University, 2005
: M. Sc. in Thermal Engineering, Alexandria University, 2012

LANGUAGES

Arabic : Native Language
English : Very Good

COMPUTER SKILLS

: Windows, MS Office (Word, Excel, Access, Power Point), Internet
: AutoCAD 2D/3D
: Visual Basic
: EES (Engineering Equation Solver)

TRAINING COURSES AND CERTIFICATIONS

: Steam turbine maintenance training by ALSTOM Co. in Mannheim – Germany:

- Steam turbine description and explaining.
- Steam turbine disassembly.
- Steam turbine internal inspection.
- Steam turbine replacement of damage parts.
- Steam turbine re-assembly.

: HRSG operation and Alspa p320 Distributed Control Systems operator on-shore training by ALSTOM Co. in Nubaria.

: Power plant description and operation of combined cycle in Alexandria (Abu Qir Training Center).

CHRONOLOGICAL EXPERIENCE RECORD

Dates : From Aug. 2016 till now
Employer : Samsung C&T
Project : QATAR - UMM AL HOUL IWPP 2500MW
Job title : Senior Mechanical Commissioning Engineer
Job Description : Mechanical commissioning of gas turbine Siemens frame (4000 F):

- Commissioning of 6 gas turbines frame 4000 F.
- Flushing of (lube oil system, hydraulic oil system, wet-compression system and Evaporative cooler system).
- Air blowing for (pulse filters, GT drainage system and pneumatic air system).
- Cold / hot commissioning of systems.
- Function checks and tuning of GT.
- Prepare and arrange of all relevant documents for turning over to client.
- Arrange all consumable materials which used in commissioning phase.
- Perform of all required maintenance during commissioning phase.
- Plan for commissioning activities to meet our schedule.
- Report to Commissioning Manager.

Dates : From Jul. 2015 till Aug. 2016
Employer : GE Power and Water – [EGYPTROL](#) subcontractor
Project : Assiut Power Project 8x125MW Simple Cycle
Job title : Senior Commissioning, Start-up & Operation Engineer
Job Description :

- Commissioning Engineer for GE Gas Turbine Frame 9E which included:
 - Lubrication oil and control oil flushing.
 - Fuel Gas pipe line air blowing.
 - Fuel oil flushing.
 - Water injection flushing.
 - GT pre-commissioning, commissioning and start-up.
- Lead and coordinate Start-up and Operation activities.
- Ensure that all safety and precautionary requirements and procedures are followed during the commissioning process in line with the commissioning schedule.
- Reporting to the Commissioning Manager.
- Operation and monitor gas turbine.
- Training and guide the owner operators.
- Performing all required maintenance.

Dates : From Apr. 2015 till Jun. 2015
Employer : [EGYPTROL](#)
Project : Hurghada Power Station
Job title : Mechanical Commissioning Engineer
Job Description :

- Oil flushing on six GE gas turbines frame LM 6000.
- System walk down, to ensure all components are installed correctly.
- Installing jumpers (bearing bypass).
- Pipes air blowing.
- Pipes connections re-tighten.

- Removing of instrumentations devices and thermal valves.
- Inspection of oil tanks and filters' elements.
- Function test to all (pumps, oil heaters).
- Installing temporary mesh on the return line.
- Using External skids (selecting material and fabrication on site) referring to GE recommendations.
- Continue flushing until reaches the acceptance criteria.

Dates : Mar. 2015
Employer : [EGYPTROL](#)
Project : ABU SULTAN POWER STATION (4x150MW Thermal Power Plant)
Job title : Mechanical Commissioning Engineer
Job Description :

- Commissioning of Boiler Feed Water Pumps.
- Following up the replacement of the old BFWP.
- Alignment of the pumps.
- Pumps Oil flushing.
- Pumps Function test.
- Pump's motor solo run test.
- Adjustment of oil flow for each bearing.
- Adjustment of pump's mechanical seal cooling water flow.
- Pumps heat run test.
- Pumps performance test.

Dates : From Jun. 2013 till Nov. 2014
Employer : [EGYPTROL](#) - SAMSUNG C&T COOPERATION
Project : QURAYYAH (about 100 km from DAMMAM) – KSA
 QURAYYAH INDEPENDENT POWER PLANT (QIIP) is a combined plant consists of 6 modules to produce 4000MW. Each module consists of two gas turbines, two HRSG and one steam turbine.
Job title : Commissioning Lead Engineer
Job Description :

- Commissioning of Water treatment Reverse osmosis plant with capacity (3 x 95 cubic meter/hr demine water and 3 x 241 cubic meter /hr service water).
- Commissioning of Chlorination plant (4 electro cells to produce 90 cubic meter/hr of sodium hypochlorite Na O CL with concentration 2000 PPM).
- Commissioning of Waste Water Treatment.
- Preparing commission procedures and all Documents required for tests and turnover to the Owner.
- Water treatment plant (desalination RO):
 This system consists of DAF system, MMF (multimedia filters), CF (Cartridge filters), SWRO, BWRO and dosing system.
 - Pump's motor solo run test.
 - System pipes flushing.
 - Adjustment of dosing pumps referring to process.
 - Adjustment of DAF system (dosing skids & air units).
 - SDI test for Multimedia filters.
 - Function test for all system components.
 - Installation of RO membranes.
 - Operation and monitor of RO production water quality.
 - Performance test.

- Loading Chemicals to tanks.
- Applied necessary modification to system.
- Water treatment plant (demine water):
This system consists of Mixed bed, regeneration skids.
 - System pipes flushing.
 - Mixed bed vessels inspection before loading resin.
 - Pump's motor solo run test.
 - Pumps heat run test.
 - Loading chemicals.
 - Loading resin.
 - Calibration of all instrumentation devices.
 - Function test.
 - Operation and monitor of mixed bed water production quality.
 - Applied modification to the system.
 - Performance test.
- Waste water treatment:
This system consists of process water drain PH adjustment system, oil separation system, sewage water treatment. The main issues for these systems as following:
 - Pumps solo run test.
 - Heat run test for all pumps.
 - System pipes flushing.
 - Pumps and valves function test.
 - Adjust timers for sewage system.
 - Function test.
 - Performance test.
- Electro chlorination system:
This system consists of four electro cells, storage tanks, dosing pumps, makeup pumps. The main issues as following:
 - Pump's motor solo run test.
 - Pumps heat run test.
 - System pipes flushing.
 - Function test.
 - Performance test.

Dates	:	From May 2009 till Jun. 2013
Employer	:	Middle Delta Electricity Production Company (MDEPC)
Project	:	Nubaria Combined Cycle (2x750MW) Power Station
Job title	:	Mechanical Maintenance Engineer
Job Description	:	<ul style="list-style-type: none"> • Heat Recovery Steam Generator Maintenance Engineer: <ul style="list-style-type: none"> - Maintaining pumps to work at high efficiency. - Fixing all leakage in valves or pipes. - Metering safety valves. - Following up manufacture's maintenance schedule. - Internal inspection of pipes and measure tube thickness. - Fixing any leakage founded in HRSG tubes. - Making all necessary cleaning "mechanical or chemical" for tubes. - Internal inspection of tube fins. - Checking status of truss, anti vibration, seals, stacks dumper and expansion joints (preventive maintenance). • Water Treatment Mechanical Maintenance Engineer: <ul style="list-style-type: none"> - Maintaining each equipment in each system to work properly.

- Fixing all leakage or damage in any equipment like (pumps, valves, air blowers, etc.).
- Making maintenance program for each equipment referring to manufacturer's manuals.
- Working with different types of pumps as rotary and fixed displacement.
- Working with different types of valves with different materials according to its applications.
- Working with different pipes and have good knowledge of welding.
- Working with air blowers.

Dates : From Apr. 2008 till May 2009

Employer : Middle Delta Electricity Production Company (MDEPC)

Project : Nubaria Combined Cycle Power Station module 3

Job title : Construction & Commissioning Engineer

Job Description :

- Worked on GE Gas turbine Frame 9FA:
 - The main issues during construction:
 - Receiving all turbine parts and made inspection of it.
 - Installing of turbine systems like lube oil system, fuel system, inlet air system, compressor washing system, generator fixation, turbine fixation, exhaust system, fuel oil system.
 - Alignment generator to turbine.
 - Hydro-test of all erected system pipes referred to ASME code.
 - The main issues during commission:
 - P&ID checks.
 - Recorded all missing parts and defects under punish list documents.
 - Oil flushing of the lube oil system.
 - Flushing of the fuel and liquid fuel systems.
 - Function test of all equipments.
 - Start-up of turbine.
 - Performance test.
 - Post-commissioning tasks.
- Good knowledge of turbine systems.
- Good knowledge of turbine installation utilities and tools.
- Good knowledge of equipment commissioning as pipes, pumps, etc.
- Good knowledge of safety precautions during installation and commissioning.

Dates : From May 2006 till Apr. 2008

Employer : Middle Delta Electricity Production Company (MDEPC)

Project : Nubaria Combined Cycle Power Station

Job title : Mechanical Commissioning & Operation Engineer

Job Description :

- Commissioning & operation of steam turbine.
- Commissioning of 2 steam turbines:
 - Lube oil flushing.
 - Control oil flushing.
 - Air blows.
 - Actuator testing.
 - Lift oil setting.
 - Pre-start checks.

- Generator hydrogen sealing.
- Synchronization up to base load.
- Performance test.
- Good knowledge of plant components.
- Good knowledge of turbine start-up and shutdown steps.
- HRSG operation sequences.