

Holds a B. Sc. in Production Engineering and has over 17 years of solid experience in different facets of Power Plant industry.

## **PERSONAL DATA**

Nationality : Egyptian  
Birth Date : 24/02/1983  
Gender : Male  
Marital Status : Married

## **EDUCATION**

: B. Sc. in Production Engineering, Alexandria University, 2005

## **LANGUAGES**

Arabic : Native Language  
English : Very Good

## **COMPUTER SKILLS**

: Windows, MS Office, Internet

## **TRAINING COURSES AND CERTIFICATIONS**

- : On-shore training course in West Delta Electricity Production Company in Abu Qir Training Centre on the operation of combined cycle power plants (Mar. 2007).
- : On-shore training course in the components and operation of high and medium voltage and generators, held in Nubaria Power Plant (Sep. 2007):
  - Generator Design & Structure.
  - Generator Auxiliary Systems.
  - Maintenance for Generator & Generator Auxiliary Systems.
  - Operation for Generator & Generator Auxiliary Systems.
  - 500/220/6.3KV operation.
- : On-shore training in erection, operation and maintenance of solar treatment plant at Nubaria III Power Station, held by Intec Energia.
- : Off-shore operation training course (160 hours) of 400MW HRSG for Nubaria Power Station, held in Milan – Italy by (STF) Company (May/Jun. 2009).
- : On-shore training on GE 9FA Gas Turbine in Nubaria Power Station.
- : Training Course on SIEMENS Gas Turbine V94.3A.

## CHRONOLOGICAL EXPERIENCE RECORD

**Dates** : From Aug. 2023 till now  
**Employer** : GE  
**Project** : 589.750/541.220 (net) MW on Gas/Fuel oil CCPP – Meghnaghat, Bangladesh (1 GT GE9HA.01 – 1 HRSG – 190MW ST A-651)  
**Job title** : HRSG Commissioning Engineer (system owner)  
**Job Description** :

- Checking the completing of erection works and issuing punch items list then following the installation team to close these items.
- Supporting and following chemical cleaning activities priory and reconfiguration post chemical cleaning.
- Carry out walk down with all disciplines officially and raise punch items to release commissioning to start.
- I&C Loop checks and valves adjusting as cold commissioning activities.
- Carry out all boiler Pumps and motors solo run and heat run tests.
- Carry out all valves commissioning (AOV, MOV, SOV, PROV, etc.).
- Hanger supports cold setting adjusting and hot setting checking during boiler running.
- Safety valves reconfiguration post chemical cleaning and hydro test activities then pop-up testing.
- HRSGs line up and initial filling and initial firing.
- Startup/shut down sequence checking as per manufacture instructions.
- Documents making and turn over all packages to client.

**Dates** : From Dec. 2021 till Aug. 2022  
**Employer** : EI Sewedy Power  
**Project** : Layyah 1026MW Combined Cycle Power Plant - UAE  
**Job title** : MECH. COMMISSIONING & START-UP ENGINEER (simple cycle)  
**Job Description** :

- Manage the execution of pre-commissioning, commissioning and start-up for GT and BOP.
- Commissioning and startup for MHI GT frame 701F.
- Carry out all commissioning and pre-commissioning activities of fuel gas system from gas reducing system to gas compressor and gas turbine filter skid included pressure test, blow out, purge by nitrogen and nitrogen container generation commissioning.
- Fuel oil system Flushing, nozzle test, bucket test, flow test, leak test and flow divider skid.
- Water Injection System flushing and tests.
- Lube oil system. Flushing and test and pressure Adjustment.
- Control oil system. Flushing, pressure Adjustment for control oil and accumulator N2 pressure.
- Instrument air system Compressor heat run test, instrumentation air blowing.
- Start-up Tasks: Initial Roll test, over speed Trip Test, Start-up Sequence.
- Turbine Check at 3600 rpm, Start-up tasks Full Speed No Load, Start-up Tasks Initial.
- Synchronization (Base Load), Start-up Tasks.
- Carry out all commissioning and pre-commissioning activities of forced cooling system (generator cooling and seal oil cooling), co2 system.

**Dates** : From Jul. 2020 till Dec. 2021  
**Employer** : GE  
**Project** : Amandi 200MW Combined Cycle Power Plant - Ghana  
**Job title** : Operation Manager  
**Job Description** :
 

- Prepared, started and run GE Frame 9E.04 gas turbine and BHGE steam turbine.
- Operated heat recovery steam generator HRSG, managed water and steam cycle to ensure high quality steam to steam turbine.
- Operate and run fuel oil treatment plant and desalination & water treatment plant to produce high purity fuel and water.
- Achieved contractual operational obligations through hands-on coordination of commissioning and testing activities with project construction team.
- Interpreted and proposed modifications to Distributed Control System DCS logic that improved plant control efficiency.
- Commissioned and test ran Balance of Plant systems in coordination with Project Construction team.
- Led and managed operation team.

**Dates** : From Nov. 2016 till Apr. 2020  
**Employer** : [EGYPTROL](#), SIEMENS AG Subcontractor  
**Project** : BURULLUS POWER PLANT IN EGYPT CCPP 4800MW  
 The facility is a 2 x 2 x 1 combined cycle configuration, consisting of:
 

- 8 SIEMENS (Frame 8000H) gas turbines.
- 8 NEM HRSG triple pressure reheat cycle.
- 4 SIEMENS Steam Turbines.

**Job title** : MECH. COMMISSIONING & START-UP ENGINEER  
**Job Description** :
 

- Carry out all commissioning and pre-commissioning activities of fuel gas system from gas reducing system to gas compressor and gas turbine filter skid included pressure test, blow out, purge by nitrogen and nitrogen container generation commissioning.
- Carry out all commissioning and pre-commissioning activities of forced cooling system (generator cooling and seal oil cooling), co2 system, water firefighting system, cooling tower, circulating system, service water system and closed cooling system.
- Reviewing drawings and specifications to ensure a thorough understanding of plant operational and safety related issues.
- Applying the project Commissioning Plan in the execution of the work.
- Lead and coordinate BOP commissioning activities.
- Lead, manage and coordinate Operation activities and vendor service specialists at site and office.
- Reporting to the SIEMENS Commissioning manager.
- Conduct meeting with commissioning manager to review testing, commissioning progress and HSE conformance on daily and occasionally more frequent basis as well as meetings with the vendors to resolve any equipment related problems.
- Analyze and addresses critical areas of progress/delays in testing and commissioning.
- Organizing a commissioning team, incorporating the training and helping recruiting the required staff and operation team.

- Ensuring that all safety and precautionary requirements and procedures are followed during the commissioning process in line with the commissioning schedule.
- Conduct commission ability reviews of project documents.
- Ensure all construction activities are completed prior to taking up the system for commissioning.

**Dates** : From Jan. 2015 till Nov. 2016

**Employer** : Middle Delta Electricity Production Company

**Project** : Nubaria II Power Plant (750MW)

**Job title** : HRSG Senior Maintenance Engineer

**Job Description** :

- Perform field inspections, field measurements and equipment walk downs, focusing on assessing boiler/HRSG (Heat Recovery Steam Generators) pressure parts and associated equipment.
- Recommend changes in procedures, equipment, or materials as necessary to maintain and improve boiler/HRSG performance, reduce O&M costs, and increase reliability.
- Focus on specific problem areas or needs for generating units (ie: Root Cause Analysis).
- Provide technical support for plant operations and maintenance activities.
- Prepare planning scope of work during scheduled outages, supporting and identify the need for boiler/HRSG component replacement.
- Develop and maintain a boiler/HRSG inspection plan for each unit including drawings, tube material information, what to inspect for in each floor/area, and pictures of typical failure mechanisms.

**Dates** : From May 2014 till Jan. 2015

**Employer** : [EGYPTROL](http://www.egyptrol.com), SAMSUNG C&T Subcontractor

**Project** : Qurayyah Independent Power Project (6x750MW) – Combined Cycle, KSA

**Job title** : Gas Turbine Commissioning & Start-up Engineer

**Job Description** :

Carry out all commissioning activities of gas turbine (SIEMENS SGT6-PAC 5000F) for:

- Fuel gas system air blowing and leak test.
- Fuel oil system. Flushing, nozzle test, bucket test, flow test, leak test and flow divider skid Test.
- Water Injection System (Dry Low NOX– Dual Fuel). Flushing and tests.
- Lube oil system. Flushing and test and pressure Adjustment.
- Control oil system. Flushing, pressure Adjustment for control oil and accumulator N2 pressure.
- Instrument air system. Compressor heat run test, instrumentation air blowing.
- Inlet guide vane IGV and variable guide vanes VGVs adjustment.
- Gas turbine Fire Protection System.
- Turning gear system.
- Air intake system. Pulse air filter self-cleaning system commissioning and puff test.
- Generator and collector blower. Commissioning.
- Cooling Air / Compressor Bleed System and Disc Cavity Cooling System.

- Compressor Water Wash System.
- High load Purge Air System.
- Start-up Tasks: Initial Roll test, over speed Trip Test, Start-up Sequence.
- Turbine Check at 3600 rpm, Start-up tasks Full Speed No Load, Start-up Tasks Initial.
- Synchronization (Base Load), Start-up Tasks.

**Dates** : From Oct. 2010 till May 2014

**Employer** : Middle Delta Electricity Production Company

**Project** : Nubaria Power Station Module II

**Job title** : HRSG Maintenance Engineer

**Job Description** :

- Conduct routine inspections and preventive maintenance on HRSG and related equipment to identify and address potential issues.
- Diagnose and repair malfunctions or breakdowns in HRSG systems, such as leaks, faulty valves, or pressure irregularities.
- Keep accurate records of maintenance activities, inspections, and repairs performed on all HRSGs in accordance with company policies and regulatory requirements.
- Collaborate with maintenance teams to coordinate repairs and shutdowns, ensuring minimal disruption to operations.
- Review operating history and recent changes to the Heat Recovery Steam Generator (HRSG) system.
- Identify, troubleshoot, and help solve mechanical and performance problems as requested.
- Document and prepare reports on any future improvements that can be made to improve operation and/or efficiency.

**Dates** : From Jan. 2007 till Oct. 2010

**Employer** : Middle Delta Electricity Production Company

**Project** : Nubaria Power Station Module I & II:

- Two SIEMENS CTG x 250MW type V94.3A.
- Two ALSTOM horizontal HRSG.
- One MITSUBISHI STG 250MW (HP, IP, LP).
- 500KV switchyard.
- 220KV switchyard.
- Medium and low switchgears.
- Module auxiliaries.

**Job title** : Graduated from CRO up to Shift Charge Engineer

**Job Description** :

- Participated at commissioning and start-up of four Siemens CTGs 250MW.
- Participated at commissioning and start-up of four horizontal HRSGs.
- Participated at commissioning and start-up of two Mitsubishi STGs 250MW.
- Safe operation for GTG Siemens 250MW x 4 UNIT and all auxiliaries during the reliability period.
- Energizing of 500KV and 220KV substation.
- Switchgear 6.3KV and MCC 400 v for all plant auxiliaries.
- Responsible for the operation of three (3) generation blocks which included but not limited to the following:

- Four (4x250MW) Siemens GTG.
- Four (4) Alstom HRSG.
- Two (2x250MW) Mitsubishi STG.
- Two (2x250MW) GE GTG.
- Two NEM HRSG.
- One (1x250MW) Alstom STG.
- 220/500KV Substation.

- Field of experience :**
- Over 17 years of solid experience in different facets of Power Plant industry.
  - Strong understanding with different EPCs philosophies in power generations and transmissions.
  - Well-exposed and experienced in the Operation, Commissioning and Start-up of the following different types of units:
    - Siemens Gas Turbine SCC5- 8000H.
    - Siemens Gas turbine SGT6-PAC 5000F (230MW).
    - Siemens Gas Turbine V94.3A (250MW).
    - GE Gas Turbine 9FA (250MW).
    - Mitsubishi Steam Turbine (250MW).
    - Siemens SST6-4000 steam (230MW).
    - Alstom Steam Turbine (250MW).
    - STF Horizontal HRSG.
    - NEM Horizontal HRSG.
    - Alstom Horizontal HRSG.
    - BHI Horizontal HRSG.
    - GE gas turbine Frame 9E.04.
    - BHGE steam turbine.
    - MHI GT 701F.
  - Possess strong leadership and dynamic interface in a team environment and working with others to achieve the best possible output from all functional viewpoints.
  - Actively display 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.
  - Demonstrated abilities and passion for providing technical advice to staff members, and embracing a culture that values team work.
  - Control Systems Experience:
    - Xp teleperm (TXP).
    - SPPA-T3000.
    - Yokogawa Centum CS 3000.
    - Mark VI.
    - Ovation.