

Holds a B. Sc. in Mechanical Production Engineering and has over 20 years' experience in Heavy Industry including Power Generation. Dealing with all aspects of construction, pre-commissioning, commissioning, operations & maintenance, and consultancy services.

## **PERSONAL DATA**

Nationality : Egyptian  
Birth Date : 24/01/1978  
Gender : Male

## **EDUCATION**

: B. Sc. in Mechanical Production Engineering, Alexandria University, 2000

## **LANGUAGES**

Arabic : Native Language  
English : Excellent

## **COMPUTER SKILLS**

: Windows, MS Office, Internet

## **TRAINING COURSES AND CERTIFICATIONS**

- : Plant control overview Water and Steam cycle.
- : Generator Brush inspection and maintenance.
- : Project Cost Management.
- : ASME Code and GEH Quality.
- : Risk Management work instruction.
- : Simulation succession planning.
- : Work instruction for the addition and maintenance of supply chain related equipment.
- : Commissioning proposal Procedure.
- : LCI Static Starter system fundamental.
- : Construction and Commissioning operating Rhythm.
- : Developing and alignment of Project objective.
- : Facilities control.
- : MR Laser leveling and alignment for MR magnet.
- : IOSH Managing Safely.
- : OSHA Construction and Industry site training – Al Morgan - Saudi Arabia.

- : CIDB - General Construction Work, Confined Space Safety Assessor (CSSA).
- : ISO 45001:2018 Occupational Health & Safety Management System Awareness.
- : ISO 14001:2015 Environmental Management System Awareness.
- : ISO 50001:2018 Energy Management System Awareness.
- : ISO 9001:2015 Quality Management System Foundations.
- : Process Safety - Managing Highly Hazardous Chemicals.
- : Internal Audit Awareness & Safety management.
- : Managing Health and Safety in Healthcare Legislation and Risk Assessment.
- : Accident Reporting Awareness.
- : Anhydrous Ammonia Safety.
- : Aerial Lift Safety.
- : Asbestos Awareness.
- : ATEX - Explosion Hazard Awareness.
- : COSHH and Working in Confined Spaces.
- : Cranes, Lifting and Equipment Laydown.
- : Developing a Risk Assessment.
- : EHS Acknowledgement for Office-based workers.
- : Electrical Safety basic training.
- : Protect acute-respiratory infection.
- : Hydrogen Sulfide Awareness.
- : Incident management system.
- : Standard precautions - Waste management.
- : Rigging, Movement and Delivery Safety Awareness.
- : Positive Intervention and Situational Awareness.
- : Radiation Safety for GEAVI-Additive US Services Operations.
- : SDS Awareness.
- : SF6 Emission Impact Awareness.
- : Slip Trips and Falls Awareness.
- : The COSHH Manager Certification.
- : The COSHH Risk Assessor Certification.
- : Workplace Fire Safety.
- : Workplace safety - Deciphering NFPA Codes.
- : Workplace safety - Emergency Action Plan.
- : Workplace safety - First Aid.
- : Workplace safety - Forklift Safety.
- : Workplace safety - Hand and Power Tools.
- : Workplace safety - Air Contaminant and Dust.
- : Workplace safety - Arc Flash.
- : Workplace safety - Back Safety.
- : Workplace safety - Cold Stress Hazards.
- : Workplace safety - Crane Safety.

- : Workplace safety - Dampness and Mold Hazard.
- : Workplace safety - Electrical Safety PPE.
- : Workplace safety - Radioactive Material Safety.
- : Workplace safety - Fall Protection.
- : Workplace Safety - LOTO - Lock Out Tag Out.
- : Welding Processes, Pipeline Leak Detection, Power Transmission Equipment & Bearing Basic.
- : Machine Condition Advisor, Workshop for Supervisors and Inspectors & Welding Health and Safety.
- : Basic Inspection Methods of Welding, Incident – management – system.
- : Standard Precautions - Waste management, Positive Intervention and Situational Awareness.
- : Fuel Oil Treatment Plant Maintenance and operation.
- : 7FA Combustion Inspection.
- : Gas Turbine Fundamentals HA Technology.
- : Familiarization LM2500 GT.
- : Familiarization LM6000 GT.
- : Familiarization LM2500.
- : LMS100 Training.
- : Combined Cycle start-up and operation.
- : Troubleshooting liquid fuel system problems.
- : GT Fire Protection system & Ventilation system.
- : Lean Blowout.
- : Ultrasound Product Identification and Traceability.
- : Rotor Installation.
- : Agile DHF Tool User Training.
- : GEHC PDI Work order Work instruction.

## CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From Dec. 2018 till Aug. 2021
- Employer** : GE
- Project** : 192MW CCPP at Aboadze – GE Frame 9E Multi Shaft Gas Turbine & GE Steam Turbine SC2-26 & FOTP by NEC – GHANA
- Job title** : Commissioning Lead Engineer
- Job Description** :
- Management of all Commissioning.
  - Personnel requirements and operational performance activities related to testing and validation of instrumentation Components & controls systems of the equipment in accordance with the design objectives / specifications for operational use.
  - Ensure flawless execution and seamless transition from Commissioning to O&M.
  - Solve tasks in areas of Commissioning operational management, manage internal and external cross functional resources to provide resolutions.
  - Management of teams EHS Performance Perform weekly audit for

PTW/LOTO systems.

- Define the commissioning staffing & Mobilization plan for commissioning team and Commissioning tools, etc.
- Establish site commissioning planning and Manage package handover.
- Select personnel as required for commissioning.
- Execute daily (if required), weekly and monthly comprehensive commissioning reports to Commissioning head.
- Set up the site filing and document control system for commissioning protocols.
- Manage the site schedule, progress of works and cost & contractual site tests.
- Achieving all Commissioning Milestones, on time delivery (OTD) & Say-Do ratio within the site schedule.
- Manage subcontractors & Coordinate with the client site team.
- Coordinate with erection team and Engineering team.
- Internal as well as external punch point clearance & Closing the site with minimum punch point.
- Handing over the power plant equipment to client.
- Handing over all the protocols and final settings to Client (as per contract) & head office (HO) (Commissioning head).
- Conduct daily and weekly meetings with staff and subcontractors.
- Responsible to give/ share feedback of experience to H.O.

<b>Dates</b>	:	From Sep. 2017 till Nov. 2018
<b>Employer</b>	:	SIEMENS
<b>Project</b>	:	PCP Cogen. Power Plant/Rapid Refinery (1220MW & 1480 T/H with complex) – Malaysia
<b>Job title</b>	:	Commissioning Lead Engineer
<b>Job Description</b>	:	<ul style="list-style-type: none"><li>• Perform lube oil flushing (SST5-4000 &amp; 6000), seal oil flushing, Control oil flushing, Checking the completing of erection works and make component check list as per P&amp;IDs.</li><li>• Carry out walk down with all disciplines officially and make punch items to release commissioning to start.</li><li>• Perform solo run test &amp; mechanical run test for condensate pumps.</li><li>• Dealing with SPPA-T3000 controller hardware and software (control system Toolbox).</li><li>• BOP operation (cooling water system, firefighting system, etc.</li><li>• Identifying, investigating and repairing system faults.</li><li>• Chemical Cleaning, Commissioning of Steam Turbines (HP back pressure STG &amp; IP/LP Condensing STG) and its auxiliaries, Steam Blow.</li><li>• Trainee new engineers and support staff.</li><li>• Follow all safety instructions.</li><li>• Operation procedure writer.</li><li>• Preparation, Coordination and Execution of Performance Testing.</li><li>• Implement the PTW (permit to work system) requirements, prepare the Risk Assessments.</li><li>• Ensure that all safety and precautionary requirements and procedures are following during the commissioning process in line with the commissioning schedule.</li><li>• Provide written technical reports including Root Cause Analysis on</li></ul>

system failures.

- Test Packages Coordinator and managing punch list.
- Trouble shooting supporting and maintenance program making as per vendor recommendations.
- Documents making and turn over all packages to owner.

<b>Dates</b>	:	From Nov. 2015 till Aug. 2017
<b>Employer</b>	:	SAMSUNG C&T
<b>Project</b>	:	RABIGH 2 Independent Power Plant (R2IPP) – Stage II - CCPP (3x650MW) (2000MW) - BHI Six (6) triple pressures HRSGs 6x230MW Siemens SGT6-5000F Gas Turbines - 3x230MW Siemens STT 4000 Steam Turbine – KSA
<b>Job title</b>	:	Commissioning Lead Engineer
<b>Job Description</b>	:	<ul style="list-style-type: none"><li>• Support planning and test procedure Development.</li><li>• Support for the implementation of the commissioning plan and coordination between design engineering, equipment Suppliers.</li><li>• Identify requirements and Specifications, drawings and other documents of the project.</li><li>• Attend and provide input at drawings &amp; Design review, safety and constructability review, spare parts order, specialist services, and model review.</li><li>• Review contractual documents and identify project requirements and constraints /risks.</li><li>• Lead subcontractor for the safe execution of Pre-Comm / Comm activities in line with the schedule.</li><li>• Lead a team of engineers/supervisors for the execution of pre-comm, comm, and Energization/Start-up activities.</li><li>• Prepare the Quality Control Plans for pre-comm /comm activities.</li><li>• Responsible to discuss and get the approval of Pre-comm, Comm and Energization procedures from customers.</li><li>• Lead project progress review meetings.</li><li>• Coordinate with projects and planning departments.</li><li>• Inspect and ensure all construction activities are completed and ensure the setting up of safety procedures.</li><li>• Assessing the requirements of special tools/temporary facilities/equipment.</li><li>• Constantly identify and communicate to the Construction team on any priority areas of work for smooth commissioning activities.</li><li>• Ensure that all safety and precautionary requirements and procedures are followed during the commissioning.</li><li>• Hold a regular review of risk assessment/meeting with the customer on issues such as HSE.</li><li>• Technical support and problem resolving on different equipment.</li><li>• Ensure all testing document are available to the testing team.</li><li>• Identify any design failures or discrepancies.</li></ul>
<b>Dates</b>	:	From Apr. 2015 till Oct. 2015
<b>Employer</b>	:	GE
<b>Project</b>	:	West Damietta Simple Cycle Power Plant (500MW Fast Track Project - 9FE M/Cs)

- Job title** : Commissioning / Operation Lead Engineer
- Job Description** :
- Leading the Mechanical Commissioning and start-up for West Damietta Simple Cycle Power Plant (500MW Fast Track Project - 9FE M/Cs).
  - Undertake the daily running of Permit to work office in conjunction with Commissioning and allocation of work schedules.
  - Design Lockout points Participate of isolation and de-isolation of all plant equipment's.
  - Verify documentation to ensure the isolation is correctly applied and all hazards were eliminated.
  - PTW/LOTO Training for all authorized employee.
  - Monitoring of contractors for compliance with the Permit to Work procedure.
  - Operation of GE Turbines and its auxiliaries.
  - Designated as a key holder for all the working areas on site.
- Dates** : From Jun. 2013 till Mar. 2015
- Employer** : SAMSUNG C&T
- Project** : Qurayyah Independent Power Plant (QIPP) / CAPP (6x650MW) (4000MW) - BHI (12) HRSGs 12x230MW Siemens SGT6-5000F Gas Turbines, 6x230MW Siemens STT 4000 Steam Turbine - KSA
- Job title** : PTW / LOTO Manager
- Job Description** :
- Setting up of the PTW site office and PTW/LOTO system.
  - Provide advice and support to the Construction & Commissioning teams on the process and procedures to be put in place to control the PTW system at site.
  - Design Lockout points, Participate in Mechanical/Electrical isolation and de-isolation of all plant equipment.
  - Designated as a Key holder for all working area on-site.
  - Ensure full compliance with ALL associated Safe Work permits standards.
  - Oversee the Issue permits for construction / commissioning activities.
  - Carry out PTW audits on the permits issued.
  - Coordinate training requirements for Permit Issuers and Receivers.
  - Send out notifications for pressure testing and radiography.
  - Ensure a log of all 'live' permits is maintained.
  - Undertake regular HSE tours to ensure familiarity with the ongoing work activities at site.
  - Ensure all permits are plotted on a site layout to minimize concurrent / SIMOPS work activities.
  - Ensure ALL Confined Spaces are clearly marked on plot plans maintained in the permit office.
  - Maintain a register of all RAMS documents.
  - Maintain custody of lock boxes inside the permit office, ensuring necessary approvals are obtained to release keys, and follow up to ensure all keys are returned that shift.
  - Maintain a "live" register of all isolations (permit and non-permit) on site, when they are applied and removed. Issue LOTO equipment and apply permit LOTO where necessary.
  - Issue and record the issue of personal locks to permit receivers.
  - Review PTW's, method statements and risk assessments.

- Ensure work requests are submitted 24 hours in advance with all supporting documentation (RAMS, P&ID/SLD mark-up, etc.).
- Review Work Requests submitted for work planned for the following day and review for SIMOPs clashes.
- Work with the Construction and Commissioning teams to Identify priority work.
- Issue "SIMOPs Notifications", notifying of authorized and non-authorized work.
- Ensure up-to-date lists in the permit office of trained personnel for permit issuers, receivers, LOTO authorized, confined space entrants are maintained.
- Update plot plans in the permit office showing the location of commissioning areas.
- Ensure that the site confined space and personal atmospheric monitors are signed out and in when required for different permits.
- Able to perform atmospheric testing.

**Dates** : From Sep. 2012 till May 2013

**Employer** : ANSALDO CALDAIE

**Project** : Thermal Power Plant 1300MW (2 Boilers 2 x 2100 ton/hr.) – Egypt

**Job title** : Commissioning & Operation Engineer

**Job Description** :

- Provide Mechanical Site supervision during Commissioning.
- Lead and coordinate Start up and Operation activities.
- Prepare reports and documents Weekly and monthly reports prepared and submitted to the client for review and discussion on a weekly basis.
- Ensure that all safety and precautionary requirements and procedures are following during the commissioning process in line with the commissioning schedule.
- Implement the PTW (permit to work system) requirements, issuing, prepare the Risk Assessments. Planning and Coordination of DCS logic functional testing with Commissioning specialists, Modification, finalizing and testing the plant logic Fuel Gas pipeline air blowing.
- Solo test and heat run test for pumps.
- Chemical cleaning & Steam blow.
- Commissioning of FDFs, GRFs, Soot blowers, Air preheater, Burners & Flame Scanner Fans, CEMS, etc.
- Responsible for startup, operation and remark alarms of units.
- Conducting all preparation steps of unit's in field to realize permissive for start-up.
- Survey in field for more check and confirm of safe operation of equipment.

**Dates** : From Dec. 2011 till Aug. 2012

**Employer** : ANSALDO ENERGIA

**Project** : 6th October Simple Cycle Power Plant (4 x V94.2 600MW Fast Track Project)

**Job title** : EHS LOTO / PTW Lead Engineer

**Job Description** :

- Manage PTW/LOTO System.
- Design Lockout points and perform all required isolation and de-isolation.

- Designated as a key holder for all the working areas on site.
- Report to site Commissioning Manager.

**Dates** : From Jan. 2011 till Nov. 2011  
**Employer** : Egyptian Ministry of Electricity  
**Project** : Damanhour, Wilcox and Babcock boiler & ANSALDO ST Thermal Power Plant, 325MW  
**Job title** : Senior Mechanical Maintenance Engineer  
**Job Description** :

- Mechanical Maintenance Engineer for Thermal Power Plant 325MW during rehabilitation work.
- Report to Maintenance Manager.

**Dates** : From May 2009 till Dec. 2010  
**Employer** : PGESCO  
**Project** : Combined Cycle consisting of 2x250MW Natural Gas/Light Oil-Fired Gas Turbines (Mitsubishi), 2 HRSG (NEM), 1x250MW Steam Turbine (Ansaldo) with all associated auxiliaries and Water Treatment Plant - Egypt  
**Job title** : Commissioning, PTW/LOTO Engineer & Shift Charge Engineer  
**Job Description** :

- Commissioning & Operation of Combined Cycle, including Chemical cleaning, Steam blow.
- Act as PTW/ LOTO Senior Authorized Person.
- Design Lockout points and perform all required isolation and de-isolation.

**Dates** : From Feb. 2008 till Apr. 2009  
**Employer** : Kuwait Ministry of Electricity & Water  
**Project** : 3x217.5MW GE 9FA Gas Turbine, 3x352 T/H HRSG (Doosan), 215.5MW Toshiba Steam Turbine, (3MSFx15MIGPD) Distillers at Shuaiba Combined Cycle Power Plant – Kuwait  
**Job title** : Senior Mechanical Engineer (Construction, Commissioning)  
**Job Description** :

- Provide Mechanical Site supervision during Construction & Commissioning of GT/ST as Owner's representative at 3x217.5MW GE 9FA Gas Turbine, 3x352 T/H HRSG (Doosan), 215.5MW Toshiba Steam Turbine, (3MSFx15MIGPD) Distillers at Shuaiba Combined Cycle Power Plant.
- Monitoring site execution according to the EPC-Contract, schedule and technical documentation.
- Supervising, advice and control erection, constructions, pre-commissioning and commissioning of Steam Turbine, Condenser and Steam Turbine Auxiliaries.
- Carry out the contractual QA/QC witnessing as/of OE activities.
- Reviewing and approval of project documentation and procedure approval reviewing and approval execution of the work of subcontractors.
- Carried out daily Site inspections, and preparing daily, weekly, and monthly Project Progress Report.
- Carried out Inspection for compliance with international standards: ASME, ANSI...etc.



- Dates** : From Aug. 2000 till Jan. 2008
- Employer** : Egyptian Ministry of Electricity
- Project** : Damanhour, Wilcox and Babcock boiler & ANSALDO ST Thermal Power Plant, 325MW
- Job title** : Mechanical Maintenance Engineer
- Job Description** :
- Preventive Maintenance.
  - Overseeing and coordinating maintenance requests or job orders.
  - Troubleshooting and issue resolution Pumps overhaul.
  - Heat Exchangers Maintenance.
  - Reciprocating & screw compressor Maintenance.
  - Multistage centrifugal, screw & gear pumps Maintenance.
  - Trouble shooting skills including vibration analysis and reporting root cause analysis.
  - Repair & rebuild fuel storage tank.
  - Vibration Measurements.
  - Turbo Machinery and rotating equipment Maintenance.
  - FDF, GRF & Air preheater Maintenance.
  - Implement the PTW (permit to work system) requirements, issuing the permit, prepare the Risk Assessments.
- Field of experience** :
- Technical Skills ASME, ANSI, AWS, NFPA, OSHA, ISO, DIN, CE, BS.
  - Tendering assessment, bid documentation & sub-contractor evaluation.
  - Design, specification preparation and evaluation.
  - Experience in vendor surveys, HAZOP surveys, Project procurement, Technical Audits, Document control, Document authoring and Review, Extensive Project Management Experience, communications, Leadership, Negotiation, Motivation and a good Engineering background with design capability in specific areas.
  - Extensive experience with Gas & Steam Turbines (Simple Cycle and CCGT), Boilers & HRSG, Tankage and Various Power Plant BOP Equipment.
  - Troubleshooting & Equipment Survey and Repair Recommendations.
  - Familiar with ASME and ANSI Standards, Manufacture, Welding, Testing, Commissioning & Root cause analysis.
  - Having previously worked in locations worldwide on short- and long-term assignments, specifically in: Egypt, Kuwait, Saudi Arabia, Malaysia and Ghana.