

Holds a B. Sc. in Mechanical Engineering and has over 18 years' experience in oil & gas and CCPP (in Egypt & S.A.) related to Mechanical Engineering work, Planning, inventory control & reduction, Installation, Commissioning & Services/Maintenance, Internal/External Auditing, Managing & training team members, Contactors / Vendors subcontractors, Market Vendors.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 20/04/1983
Gender : Male
Marital Status : Married
Residence : El-Behira

EDUCATION

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

LANGUAGES

Arabic : Native Language
English : Excellent
German : Basics

COMPUTER SKILLS

: Windows, MS Office (Word, Excel, Power Point), Internet
: SAP

TRAINING COURSES AND CERTIFICATIONS

- : Certification of First Aid / CPR / AED Training - Riyadh (Mar. 2019).
- : PMP preparation course.
- : Operation of combined cycle, West Delta Electrical Production Company, Abu Qir (Dec. 2006).
- : Basic training on maintenance of GE Gas Turbine Frame (9FA), Nubaria (Apr. 2009):
 - Introduction to the plant.
 - Electrical and I&C part.
 - Gas turbine part.
- : Basic training off-shore on maintenance of ALSTOM Steam Turbine (Basic Turbine Overview), Mannheim – Germany (Nov./Dec. 2009).
- : Basic trainings on-shore:
 - Erection, operation and maintenance of Solar Treatment System,

- Nubaria (Sep. 2009).
- Course for the maintenance of ALSTOM Steam Turbine personnel, Nubaria (Apr. 2010).
- Operation and maintenance in class training and on-site training of Debris Filter (DF) and Condenser on lead tube cleaning system (COLTCS), Nubaria (Mar. 2010).
- Maintenance of the Alstom CM Condenser, Nubaria (Apr. 2010).
- BTG Valve & Smartrak Maintenance & Calibration Training Course, Nubaria (May 2010).
- Condenser Exhauster Vacuum Pump Units & Water box Priming Units, Nubaria (May 2010).
- : The Amplissma User Training Program, Nubaria (Mar. 2010).
- : Train the Trainer course, Riyadh (KSA) (Nov. 2012).
- : Occupational Safety and Health Management – OSHA, Riyadh – KSA (Apr./May 2013).
- : Site visit for ISCC in El-Kureimat in Egypt and Waad Alshamal in SA.

CHRONOLOGICAL EXPERIENCE RECORD

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|------------------------|---|---|
| Dates | : | From Aug. 2023 till May 2024 |
| Employer | : | Main Contractor for Relocation 2 Gas Turbines |
| Project | : | Two Westinghouse gas turbines (W251B2/7) from Alexandria to Cairo |
| Job title | : | Outage Manager / Site Manager |
| Job Description | : | <ul style="list-style-type: none"> • Manage complex outage event preparation (Planned / Emergent / Upgrade) from start to finish, including outage schedule development, TFA/tooling, customer management - pre/post outage meetings, mobilization planning, JCE execution, and event close out. • Survey for units, related equipment, and Balance of Plant equipment (BOP) in sites. • Schedule report for owner and contractor scope, manpower, tools, etc. • Dismantling and packing at original site. • Transportation of all equipment from original to destination sites. • Unpacking and installation at destination site including piping and cable laying. • Start-up, testing and commissioning at the destination site. • Relocation of units and finish project until Commercial Operation Date. |
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| Dates | : | From Jan. 2022 till Jul. 2023 |
| Employer | : | Tractebel Engie, Consultant |
| Project | : | TAMBAKLOROK 600-850MW GE Single Shaft CCPP (Semarang – Indonesia), GT 1X9HA.02 with HRSG and ST D-652 STF 3 |
| Job title | : | Lead Mechanical Engineer (Mechanical Expert) |
| Job Description | : | <ul style="list-style-type: none"> • Support site progress evaluation weekly meeting between Owner (IP - Tractebel) and Consortium (GE-Marubeni-HK). • Coordinate with client, suppliers' designer and subcontractors. • Lead Commissioning team in planning, executing, and overseeing the commissioning activities for the power plant. • Ensuring all commissioning processes align with industry standards, safety regulations, and company policies. |

- Review contractor preservation documentation as per O&M manuals
- Review pre-commissioning and commissioning documentation ensuring contractors obligation to the project's delivery, also assisted in verifying contractors work progress.
- Maintain the master schedule for overall project implementation incorporating contractors' individual schedules.
- Coordinating with project managers, engineers, and other stakeholders to ensure seamless integration of systems and components.
- Developing detailed commissioning plans, schedules, and procedures.
- Overseeing the installation and testing of gas turbines, ensuring they meet performance and safety standards.
- Managing the balancing plant operations, ensuring optimal performance and efficiency.
- Identifying and resolving any issues or discrepancies during the commissioning phase.
- Conducting risk assessments and implementing mitigation strategies to ensure the successful completion of the commissioning process.
- Organized Commissioning and startup of BOP as well as Gas/Steam Turbines.
- Assist to quality management system and procedures to monitor and to control the time.
- Lead Commissioning Meeting.
- Conduct coordination, supervision and inspection of all commissioning and startup engineering activities.
- Provide necessary interpretation to the owner on technical and commercial issue.
- Provide technical guidance to personnel assigned within area of responsibility.
- Follow up upgrade activities for Gas and Steam Turbine.
- Follow up modification works for vibration issues on BFWPTs, vibration measurements and balancing for them.
- Prepare and study with the contractors and vendor for foam issues in seal weir pit.
- Preservation.

Dates : Dec. 2021
Employer : Ansaldo Energia / EarthStreamGlobal
Project : Banha Combined Cycle PP - Egypt, One Doosan Steam Turbine 250MW
Job title : Steam Turbine Expert (TFA) (Outage Manager)
Job Description :

- Investigate the problem of Vibration trip 2 times on Bg #2.
- Endoscopic Inspection for HP, IP Turbines.
- Inspection for Bg #1 & Bg #2.
- Inspection for MSCV of HP turbine.
- Make test and take dimensions of Bgs.

Dates : From Oct. 2021 till Nov. 2021
Project : Nubaria PP - Egypt, One Alstom Steam Turbine 250MW
Job title : Steam Turbine TFA
Job Description :

- Performing major inspection of ALSTOM steam turbine (250MW).
- Performing major inspection of steam turbine valves and steam turbine

Auxiliaries.

- Testing and commissioning till operation.
- Coordinate all Start-up activities with other departments (I&C, Electrical, etc.).
- Perform inspection, maintenance for BOP and replace parts as per maintenance recommendation.

Dates : From Oct. 2019 till Oct. 2021
Employer : PGESCO CONSULTANT
Project : CAIRO WEST SUPERCRITICAL POWER STATION 1x650MW in Egypt (One AC Boiler Supercritical Boiler, One Doosan Steam Turbine 650MW)
Job title : Senior Commissioning Engineer / Field Service Engineer
Job Description :

- Coordination between contractors to execute activities safely and normally.
- Control work permits (PTW) during the plant pre-commissioning, commissioning and testing activities on plant and equipment.
- Supervise the commissioning and startup engineering activities.
- Supervise Ultra filtration, Reverse Osmosis Water Treatment plants activities.
- Plan and direct startup engineering assignments on the project(s) and have technical responsibilities for interpreting, organizing, executing, and coordinating.
- Prepare for Reliability and Performance test.
- Provide technical guidance to personnel assigned within area of responsibility.
- Conduct, coordination, supervision and inspection of all commissioning and startup activities.
- Provide necessary interpretation to the owner on technical and commercial issue.

Dates : From Jun. 2018 till Sep. 2019
Employer : SHANAHAN CO.
Project : PP13 1980MW in Riyadh, KSA
Job title : Senior Commissioning Engineer / Field Service Engineer
Job Description :

- Supervise the startup engineering activities.
- Plan and direct startup engineering assignments on the project(s) and have technical responsibilities for interpreting, organizing, executing, and coordinating.
- Executed the startup and/or operations activities.
- Supervise and provide technical guidance to personnel assigned within area of responsibility.
- Lead Team of engineers and technicians to make necessary commissioning tests and starting up for all the pumps.
- Site visit for Waad Elshamal ISCCPP.
- Prepare Preservation Activities Documents and doing them with stuff.
- Prepare Operating Procedures, MOS, ...

Dates : From Jan. 2018 till Jun. 2018
Employer : AC BOILERS

Project	:	AL-SHABAB POWER STATION – PHASE II (Converting existing SC to CC)
Job title	:	Senior Commissioning Engineer / Field Service Engineer
Job Description	:	• Commissioning & Startup Eng. at Al-Shabab PP (Ismailia - Egypt). • Commissioning activities for HRSG. • Reliability and Performance test and troubleshooting. • Executed the startup and/or operations activities. • Supervise and provide technical guidance to personnel assigned within area of responsibility.
Dates	:	From Jun. 2017 till Jan. 2018
Employer	:	Weir Oil and Gas
Project	:	ENI Project in Basra – Iraq
Job title	:	Mechanical Rotating Engineer (Team Leader)
Job Description	:	• Work for Weir as mechanical engineer for operations and maintenance gas compressors packages Waukesha L7042GSI, L5794GSI, Series engine with Ariel JGE, Ariel JGK, Ariel JGT compresses on Zfod Eni project in Zubair field. • Commissioning for un-commissioned Compressors. • Control work permits (PTW) during the plant maintenance, commissioning and testing activities. • Organized 30 Gas Compressor driven by Waukesha gas engines (with crew in three locations Hammar IPF, Zubier IPF and Rafidiya IPF).
Dates	:	Nov. 2016 (for 2 months)
Employer	:	GE
Project	:	GE GT 9FA upgrade
Job title	:	Outage Manager
Job Description	:	• Manage complex outage event preparation (Planned / Emergent / Upgrade) from start to finish, including outage schedule development, TFA/tooling, customer management - pre/post outage meetings, mobilization planning, JCE execution, and event close out. • 9FA AGP upgrade and replace Combustion Parts and Hot Gas Path Parts with new upgraded parts to extend running hours with no outage for maintenance. • Managing the maintenance spare parts ordering, inspection on site, coordinate between different departments and warehouse. • Inspect and evaluate material as per data sheet and drawing. • Monitor local junior staff with technical support.
Dates	:	From Apr. 2014 till Jun. 2017
Employer	:	Middle Delta Electricity Production Company
Project	:	Nubaria Combined Cycle Power Plant, Module III (1x750MW)
Job title	:	Mechanical TFA (Maintenance Engineer) (Outage Manager)
Job Description	:	• Manage complex outage event preparation (Planned / Emergent / Upgrade) from start to finish, including outage schedule development, TFA/tooling, customer management - pre/post outage meetings, mobilization planning, JCE execution, and event close out. • Dismantle GT GE 9FA.04 after surge from 18-10-2017 to 26-10-2017.

- Reliability and Performance test and troubleshooting.
- Prepare codes for mechanical spare parts in storehouse.
- Executed Material inspection of Gas Turbine AGP upgrade.
- Perform hands on repair combustion inspection activities, borescope inspection..... and all auxiliary systems maintenance.
- Prepare and plan in details all inspection activities, planned maintenance, major overhauls, and maintenance jobs during planned shutdowns and forced shutdowns.
- Review maintenance procedures, job plans, standing instruction, operating manuals, and to update company manuals for safe maintenance and operation.
- Follow up all preventive maintenance for the plant Auxiliaries.
- Change accumulator bladders for diverter damper hydraulic skid.
- Follow up all Preventive maintenance for GE Gas Turbine Auxiliaries (Lube oil System, Hydraulic System, Water Injection System, Fuel System, etc.....).
- Follow up all Preventive maintenance for ALSTOM Steam Turbine Auxiliaries (Lube oil System, Condensate System, Condenser Vacuum Pumps, Tube Cleaning, etc..).
- Executed combustion inspection of GE & change of H2 seal.
- Make work order and request spare parts on Amplissma Program (Computer Management Maintenance System).
- Follow up the inventory safety stock quantities.
- Follow up all gas turbines spare parts stock balance.
- Prepare capital and consumable spare parts list with prices.
- Review AGP, DLN 2.6 and CSA contracts for GE modification and maintenance.
- Prepare Maintenance Procedure Information System (MPIS).
- Chairman of the Committee an inventory of mechanical spare parts storehouse.
- Maintenance for Life line wash system of switch yard (500 & 220KV) TYCO.
- Maintenance for Hydrogen and oxygen gas plant.
- Maintenance for Fuel gas/oil plant, Diesel Generator.

Dates	: From Jun. 2012 till Apr. 2014
Employer	: SEC (Saudi Electricity Company), Riyadh – KSA
Job title	: Mechanical Technical Instructor / Coordinator
Job Description	: • Prepare technician to work in operation & maintenance for SEC Power Plants. • Lead the classroom development and on-going maintenance of all training programs. • Ensure that the equipment in the workshops and laboratories and areas suitable. • Power point presentation, Deliver Training. • Mechanical Short Courses & OJT. • Planning and organizing training sessions. • Evaluating trainees' progress. • Keeping training materials up-to-date. • Ensuring compliance with international standards.

Dates : From Nov. 2008 till Jun. 2012
Employer : Middle Delta Electricity Production Company
Project : Nubaria Combined Cycle Power Plant, Module III (1x750MW)
Job title : Commissioning & Start-up Engineer (Field Service Engineer)
Job Description :

- Commissioning & Start-up Eng. at Nubaria (Egypt) GE MS9001FA Gas Turbines.
- Follow up all site mechanical activities for the contract CP-118 (Mechanical Equipment / Pipe Installation) and PUMPS & DRIVES (PO-109).
- Make leveling and alignment for rotating equipment.
- Follow up hydro test, start-up and commissioning for each system and also for steam turbine.
- Reviewing and revise all submittals with the contracts.
- Review and approve MRR's (Material Receiving Reports).
- Review and approve contractors' progress invoices.
- Follow up instrument and service air compressors start-up and operation.
- Follow up Erection, operation and maintenance of Solar Treatment System.
- Follow up all site mechanical construction and commissioning activities for Gas Turbine, Steam Turbine, CP-118 and PO-109 contracts.
- Gas line blow out, pneumatic test, maintenance for the gas equipment like filters, pressure control valves.

Dates : From Sep. 2006 till Nov. 2008
Employer : MDEPC (Middle Delta Electricity Production Company)
Project : Nubaria Modules I & II (2x750MW Combined Cycle Project):

- Two Modules consists of:
 - 4 combustion turbine generators (250MW SIEMENS V94-3A).
 - Two horizontal ALSTOM HRSGs.
 - One MITSUBISHI STG 250MW (HP, IP, LP) turbine.
- 500KV Switchyard.
- Medium and Low Voltage Switchgear.

Job title : Field Operation Engineer
Job Description :

- Installation and commissioning Siemens 4000F (V94.3A) 250MW.
- Liquid fuel commissioning and field engineer Combustion Turbine Generator (Siemens V94.3A).
- Process Engineer Gas/Steam Turbine, HRSG, BOP, Utilities (Water treatment plant (METITIO) Potable water treatment, Dematerialized water 3x75m³/h, treatment, west water treatment, sewage treatment, ...).

Field of experience :

- Engineering Skills:
 - Good knowledge of codes as (ASME, ASTM ...etc.), various types in Materials of piping and fitting types, pressure schedule, pressure rating and welding types.
 - Good knowledge of Siemens, Alstom and GE Systems, equipment and KKS, MLI & TILs.
 - Aware of contractual and commercial issues also QC&QA also Six Sigma principles.

- Coordinate with client, suppliers' designer and subcontractors.
- Ensure performance, productivity, efficiency, meeting schedule, safety and quality.
- Ability to work together with the other departments in order to achieve the best result for the company.
- Ability to build and work with multi-cultural and multi-disciplinary staff.
- Seek, organize and exchange information for decision making and problem solving.
- Excellent problem-solving and analytical skills.
- Ability to work in diverse and challenging environments.
- Work closely with others and provide them with all the necessary support.
- Good knowledge of safety rules and attend training for Occupational Safety and Health Management - OSHA.
- Work independently and according to technical established procedures, professional Engineering standards.
- Participate in technical review and pricing contract of GE 9FA Modification.
- GE tools PTS & GE Box.
- Conducting training courses in the area of Mechanical equipment's operation and maintenance also OJT (On Job training).
- Good knowledge of Computer Maintenance Management System (Amplissma).
- Familiarity with work permit system and safe working in plant area.
- Good troubleshooting, and work planning, scheduling, coordination, organizing ...etc., and writing technical reports.
- Process Engineering.
- Experience summary:
 - Over 18 years' experience in CC, Supercritical PPs, BOP & oil and gas (in Egypt, S.A., Iraq & Indonesia), also Maintenance training in Germany and Relocation Experience.
 - Experience as Owner, Contractor, Consultant, Freelancer, TFA & FSE (Siemens, GE, Alstom & Ansaldo...) also Leader/Manager.
 - Work experience related to (Process Engineering, Long and Short Time Preservation, Commissioning, Maintenance & Outage Activities).
 - Aeroderivative GT experience.
 - Experience from project start Phase until finish (Commercial Operation).
- Detailed Tasks Assigned:
 - Main contractor for Relocation (prepare, manage and execute) of Two Westinghouse gas turbines (W251B10).
 - Evaluate bid proposals of the mechanical Subcontractors and give technical solutions and corrective action in order to quality and cost efficiency of the maintenance activities. Spare parts, manpower, technical data support, solve any problem for mechanical maintenance.
 - Management for major overhauls for heavy equipment turbine, compressor, pump, auxiliaries (spare parts, manpower, work schedule, material).
 - Maintenance schedules planning (daily-weekly-etc.), Co-ordinate

between all departments.

- Process engineering, Supervision & control of commissioning / maintenance works in respect of drawing, design and work schedule (HRSG, boiler, gas, steam turbine, centrifugal compressors and auxiliaries).
- Plan and execute overhauling Prepare and modify maintenance procedures.
- Prepare and execute necessary long- and short-time preservation documents for all site equipment's in Saudi and Indonesia.
- Breakdown maintenance activities, coordinating the activities carried out by the Client, Contractors, Suppliers, and third parties.
- Follow up the commissioning, maintenance and reliability run tests for the following systems and equipment's:
 - ❖ Gas / Steam Turbine, BOP, ...
 - ❖ High pressure gas reducing stations.
 - ❖ Feed water systems.
 - ❖ Hypo chloride production plants.
 - ❖ Waste water treatment systems.
 - ❖ Compressed air systems.
 - ❖ Desalination Units.
 - ❖ Oil and crude oil purification and transfer systems.
 - ❖ Cooling water systems.
 - ❖ Demi water plants.
 - ❖ Firefighting systems.
 - ❖ Service water system.
- Issue all types of work permits and LOTO. Assist in review and approval of designs, drawings and procedures (CTG, STG & auxiliaries).
- Prepare and analyze plant trip reports and troubleshooting.
- Take initiative to correct problems and identify areas of plant and plant processes that need improvement.
- Control plant modifications and projects.
- Prepare and analyze root cause analysis reports.
- Skilled in the use of Boroscope Equipment, machine and hand tools.
- Chairman of the Committee an inventory of mechanical spare parts storehouse.
- Review AGP, DLN 2.6 and CSA contracts for GE modification and maintenance (manpower and prices for manpower and spares).
- Maintenance work for BOP (Pumps, Valves, Air Compressors, Heat Exchanger.....).
- Co-ordinate with OEM for upgrade, Engineering recommendation and the problems arising during unit operation.
- Prepare reports/presentations of Main Turbines, Generators, Boiler Feed Pump Turbines, Main Valves and auxiliaries, BOP.
- Provide mechanical on-site Technical Direction and supervision during Inspections, Start-up, Commissioning and Maintenance.
- Lead, supervise and coordinate a team of direct hire and contract Mechanical technicians focusing on efficient and effective compliance with the daily routine, scheduled predictive and forced outage/breakdown maintenance plans...
- Schedule, coordinate and execute testing and full life cycle of onsite commissioning activities with tight deadlines and in line with

the specified equipment requirements.

- Ariel Gas Compressor and Waukesha gas engines commissioning and maintenance.
- Prepare Maintenance Procedure Information System (MPIS).
- SITE MANAGER (EGYPT), TEAM LEADER (IRAQ).
- Ensure that all HSSE measures and precautions are strictly considered and taken care of during the execution of Maintenance activities.
- Work as Training Instructor / Coordinator.