

Holds B. Sc. and M. Sc. in Mechanical Power Engineering and has over 15 years of experience in operations, commissioning and maintenance of steam and power utilities in heavy industrial and refinery environments. Specialized in thermal power plants, Siemens turbines, high-pressure steam systems and refinery utilities. Proven expertise in commissioning leadership, troubleshooting, reliability testing and process optimization, with strong compliance to HSE, ASME, API, process safety standards, and ISO 9001:2015 QMS requirements.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 29/05/1988
Gender : Male
Marital Status : Married
Residence : Currently KSA

EDUCATION

- : B. Sc. in Mechanical Power Engineering, Alexandria University, 2010
- : M. Sc. in Mechanical Power Engineering, Alexandria University, 2016

LANGUAGES

Arabic : Native Language
English : Very Good

COMPUTER SKILLS

- : Windows, MS Office, Internet
- : MS Project, Oracle
- : DCS Systems: Siemens, Bailey, ABB and Forbes Marshall

TRAINING COURSES AND CERTIFICATIONS

- : Process safety management – Engineers Syndicate (2025).
- : ISO 9001:2015 Quality Management System (QMS) – Quality Guru INC (2025).
- : Planning using Microsoft Project – Engineering Tracks (2024).
- : Risk Management Professional (RMP) Prep – Engineering Tracks (2023).
- : Project Management Professional (PMP) – PMI Certified (2023).
- : Project Management Professional (PMP) Prep – Engineering Tracks (2022).
- : Six Sigma: Green Belt – LinkedIn (2021).
- : Failure Analysis – Abu Qir Power Plant Training Center (2017).

- : Vibration Analysis – Abu Qir Power Plant Training Center (2016).
- : Training course in pumps certificated from Engineers Syndicate (2013).
- : Sea Water Desalination Methods – Abu Qir (2012).
- : Thermal Power Plant Operations – Abu Qir (2011).
- : Training Course in Refrigeration & Air Conditioning (2010).
- : Training at Abu Qir Fertilizers (2009).
- : Training at Alexandria Mineral Oils Co. (AMOC) (2008).
- : Training at Transport & Engineering (NISR TIRES) (2007).
- : Data analysis (UDACITY): Data analysis professional - Data challenge track.
- : International Computer Driving License (ICDL).

CHRONOLOGICAL EXPERIENCE RECORD

Dates	: From Apr. 2021 till now
Employer	: RISAL (RAWABI INDUSTRIAL SERVICES)
Projects	: • Jazan IGCC Plant (Saudi Aramco / Air Products) – Steam systems, CCR operations • Refinery Utility Integration – Temporary steam system commissioning, safe tie-ins to refinery piperack
Job title	: Assistant Project Manager / PMP / Power & Utility Systems / Commissioning
Job Description	: • Led operations and predictive maintenance to support Saudi Aramco refinery and JIGPC plant for high-pressure steam production projects, performing diagnostics on pumps, fans, and compressors. • Led safe and efficient operations of high-pressure steam systems within refinery and IGCC environments, closely coordinating with cross-functional engineering teams for plant optimization and troubleshooting. • Lead testing, commissioning, and maintenance activities for high-pressure steam and process piping in refinery and power block projects. • Led hydrostatic/pneumatic testing, chemical cleaning, steam blowing, and system reinstatement in alignment with ASME B31.1/B31.3 standards. • Performed Root Cause Failure Analysis (RCFA), vibration diagnostics, and reliability run tests to optimize plant performance. • Participated in safety reviews (HAZOP, JSA) and supported LOTO tagging for interlock and protection system validation, ensuring safety and reliability compliance. • Prepare and review method statements, ITPs, and piping isometrics for pre-commissioning and commissioning phases. • Monitor contractor performance and ensure adherence to safety, quality, and schedule targets. • Led full-lifecycle commissioning and start-up of high-pressure boilers and Siemens turbine systems integrated with refinery and utility loads. Including chemical cleaning, steam blowing, drying, preservation and refractory dry-out. • Supported project execution while ensuring compliance with ISO 9001:2015 QMS standards, enhancing process efficiency and documentation accuracy. • Implemented quality audits and corrective actions in line with ISO requirements.

- Collaborated with QA/QC to validate WPS, MTC, and PWHT, PMI, review flange connections and gaskets; verify MTCs and WPS compliance and hydro tests for pressure components.
- Implemented quality audits and corrective actions in line with ISO requirements.
- Collaborated with control room personnel during turbine first start, ensuring proper interlock, alarm, and ESD configuration.
- Operated systems from Central Control Room (CCR) using DCS platforms (Siemens, ABB, Forbes Marshall), to validate alarms, interlocks, and safe start sequences during first energization.
- Supported the Project Manager in stakeholder meetings, procurement coordination, and collaborate with procurement teams and reviewed vendor proposals to ensure technical compliance and cost alignment participated in contract reviews and technical clarifications.
- Reviewed and validated engineering documents: GA drawings, WPS, MTC, and hydro tests as per ASME standards.

Dates	:	From Feb. 2011 till Apr. 2021
Employer	:	West Delta for Electricity Production
Project	:	Sidi Krir Power Plant
Job title	:	Mechanical Operation Engineer
Job Description	:	• Operated DCS systems (Siemens, ABB, Bailey) for steam turbines, boilers, and auxiliaries during startup and shutdown phases. • Monitored plant operations, performed trend analysis, alarm response, and interlock validation to ensure safe operations. • Managed day-to-day operations of steam power plant of 2x320MW, ensuring continuous, safe, and efficient plant performance. • Recorded and reported daily operating parameters, equipment abnormalities, and plant performance trends. • Supported emergency operations, trip recovery, and system troubleshooting. • Assisted in plant isolation/normalization activities under PTW and LOTO procedures. • Operated and monitored steam turbines, boilers, and balance-of-plant systems to maintain continuous power generation. • Assisted in overhaul and reliability testing of critical mechanical equipment. • Maintained operating logs, reported process deviations, and coordinated corrective actions with maintenance teams. • Conducted routine inspection, preventive maintenance coordination, and startup/shutdown assistance. • Provide leadership to the operation team of two Multistage Flashing (MSF) desalination plants with a capacity of 5000 tons per day. • Conducted hot/cold commissioning and post-overhaul validation of steam turbines (Siemens) for systems such as bearing lubrication oil flushing, generator sealing oil, control oil for turbine valves, generator's hydrogen Purging and filling, ...etc. • Conducted operational checks and coordinated with maintenance teams for timely repair of piping and valve systems.

- Field of experience :**
- Power Plant Commissioning & Start-up (IGCC, CCPP, Desalination, Steam & Utilities).
 - DCS/CCR Operation (Siemens, ABB, Bailey).
 - Siemens Gas & Steam Turbines, HRSG, Boilers, Compressors, Pumps.
 - Process Safety: HAZOP, LOTO, JSA, PTW, MOC.
 - QA/QC & Documentation: Test Packs, Hydrotesting, MTCs, WPS, PWHT.
 - Reliability Run Tests, Predictive Maintenance, Performance Optimization, RCA/RCFA.
 - Pre-commissioning: Steam Blowing, Chemical Cleaning, Drying, Preservation.
 - Root Cause Analysis & Troubleshooting.
 - Project Management (PMP Certified), and Project planning (MS Project, Oracle ERP).
 - Project Execution, Vendor Coordination, Turnover Documentation.
 - ISO 9001:2015 Quality Management System (QMS).
 - Standards: ASME BPVC, API510 Pressure vessel inspection, ISO, Aramco Specifications.
 - Piping Testing (Hydrostatic / Pneumatic).
 - HSE Awareness: HAZOP, JSA, LOTO, PTW, MOC (Aramco Standards).