

Holds a B. Sc. in Mechanical Engineering and has over 10 years of experience in operation, maintenance and troubleshooting of a wide range of mechanical equipment and systems. Strong foundation in providing technical support for new projects, from development to commissioning.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 23/11/1991
Gender : Male
Residence : Ismailia

EDUCATION

: B. Sc. in Mechanical Engineering, Alexandria University, 2014

LANGUAGES

Arabic : Native Language
English : Very Good

COMPUTER SKILLS

: Windows, MS Office (Word, Excel, Power Point), Internet
: Primavera P6
: AutoCAD 2D, 3D
: FLUID SIM & HYSIS: Simulation of fluid power systems and power station, Air plants and NG plants respectively

TRAINING COURSES AND CERTIFICATIONS

: Project Management Professional (PMP®) certification.
: Dredge Master Training at Dredging Simulator, demonstrating proficiency in advanced dredging techniques and operations.
: Completed Hazard Identification and Risk Assessment training online through Alison.
: Certified Vibration analysis CAT I from ISTE International Academy.
: Acquired proficiency in the fundamentals of shaft alignment, power transmission equipment, bearings, and lubrication through specialized training at SKF Knowledge Centre.
: CMRP-Related Training Program at SKF Knowledge Centre: Completed a series of specialized eLearning courses covering key aspects of reliability and maintenance, including Proactive Reliability Maintenance, Operator Driven Reliability (ODR), lubrication management, and asset optimization.

Acquired expertise in predictive maintenance, bearing damage classification, and maintenance strategy evaluation, aligning with best practices in the maintenance and reliability field.

CHRONOLOGICAL EXPERIENCE RECORD

Dates	:	From Sep. 2021 till now
Employer	:	Suez Canal Authority – Dredging Department, Ismailia
Job title	:	Technical Superintendent
Job Description	:	• Oversee operation and mechanical maintenance of high-value dredging vessels, including the Cutter Suction Dredger up to (30,270 kW installed power, 4,800 kW cutter power) and Trailing Suction Hopper Dredger up to (18,600 kW installed power, 10,000 m³ hopper capacity). • Manage all maintenance activities for MAN (6L48/60CR) 6170 kW, MAN B&W (8L48/60) 8400kW, Wärtsilä (W8L32) 4160 kW and Wärtsilä (6L20C2) 1200kW diesel engines. • Ensured optimal performance and maintenance of critical dredging equipment and rotating machinery, notably the main dredge pumps, booster pumps, Winches and compressors. • Maintain valves, filters, greasers, and heat exchangers, ensuring optimal performance through regular maintenance activities. • Demonstrate strong hands-on skills and supervise maintenance tasks on the dredger. • Plan and coordinate mechanical maintenance activities in collaboration with other departments. • Develop and implement weekly, monthly, and annual preventive maintenance schedules and reports. • Prepare scope of work, conduct technical evaluations, and execute all mechanical maintenance activities. • Conduct root cause analysis (RCA) for equipment failures to identify and resolve issues. • Increase equipment availability through implementation of efficient repair and maintenance strategies. • Diagnose technical problems and provide effective solutions, improving mean time to repair (MTTR) and enhancing overall dredger efficiency. • Reduce equipment downtime through proactive maintenance scheduling, achieving significant annual cost savings. • Identify design and installation issues during the warranty period and claiming compensations, achieving cost savings of approximately \$900,000. • Supervise the installation, maintenance, repair, troubleshooting, and modification of mechanical equipment on the dredgers. • Managed dry-docking and major overhaul projects, coordinating with shipyards and contractors to ensure on-time and on-budget completion. • Ensure availability of spare parts and coordinate the ordering of new materials. • Mentor junior engineers, resulting in improvement and enhancing in team performance. • Led and motivated vessel engineering teams, promoting a culture of technical excellence and continuous improvement.

- Adhere to all company codes, regulations, and engineering practices.
- Maintained full compliance with international maritime regulations, class society requirements, and internal HSEQ (Health, Safety, Environment and Quality) standards.

Dates : From Dec. 2018 till Aug. 2021

Employer : Suez Canal Authority – Port Said Shipyard

Projects :

- New Building Projects:
 - Four tugs with 70-ton bollard pull
 - Two ferry boats (320 tons)
- Maintenance Projects:
 - Port Said Shipyard Floating Docks with lifting capacities of 5,000, 10,000, and 25,000 tons
 - Mashour, Salah Al-Din and El-Sideek dredgers with pumping capacity of 3,600 m³/hr
 - Renovation of Port Said Shipyard's piping networks, directing the installation of over 3,000 meters of new piping
 - Renewal of worn and damaged piping systems for INKAZ Floating Crane (500-ton lifting capacity)

Job title : Senior Piping Engineer

Job Description :

- Piping Design, installation, testing and commissioning works of tug boats, floating cranes, ferries, dredgers and floating docks.
- Provide technical advice and supervision for piping fabrication and welding activities in the shipyard's piping workshop, ensuring compliance with Welding Procedure Specification (WPS) and quality standards.
- Manage mechanical pre-commissioning activities, coordinating with teams on testing and commissioning processes.
- Optimize piping layout and material selection, reducing material costs by 15% (\$50,000 annual savings).
- Develop and organize work schedules to optimize time and resource management, reducing installation time by 25% (\$100,000 savings).
- Supervise task allocation among team members, ensuring efficient utilization of resources to meet project targets.
- Conduct maintenance on piping networks, including air, fresh water, and firefighting systems at Port Said Shipyard.
- Visual inspections and monitor welding processes during fabrication and installation, ensuring quality assurance and achieving a 25% reduction in defects.
- Coordinate with classification societies for approval of modification drawings for vessels.
- Maintain and enforce company quality standards in accordance with the Quality Management System.

Dates : From Feb. 2017 till Nov. 2018

Employer : El Sewedy Electric PSP (Power System Projects)

Project : Beni Suef Power Station 4800MW

Job title : Mechanical Construction & Commissioning Engineer

Job Description :

- Serve as Construction, Erection & Commissioning Engineer for two steam turbines (2x400MW), condensers, and all related mechanical equipment.

- Study drawings and prepare material lists to ensure accurate and efficient project execution.
- Install two Steam Turbines (SST-5000 SIEMENS) with H2 Gas Cooled Generators (SGen-2000H) and auxiliaries.
- Support the BOP team in pumps erection, alignment, and mechanical static equipment erection.
- Participate in all pre-commissioning activities, including chemical cleaning, steam blowing, and flushing.
- Manage all aspects of on-site mechanical construction and maintenance works.
- Supervise and monitor the progress of routine, breakdown, and planned maintenance activities to improve equipment reliability and availability for operations.
- Oversee critical lifting activities and review lifting plans according to site conditions.
- Review subcontractors' scope of work and terms of reference (DOR).
- Coordinate with the planning team to develop and analyze work lists, specify materials, identify manpower and equipment requirements, and create micro plans for activity timelines.
- Conducted technical training, enhancing team knowledge by 40%.
- Clear 100% of the owner's punch points efficiently.

Dates : From Jan. 2016 till Jan. 2017

Employer : Global Energy Company, Alexandria

Projects :

- Al-Manara International Conference Hall (Fire-fighting Project)
- West Cairo & South Helwan Power Stations (Fire-fighting & HVAC (DX system))
- Egy Mar Company Head Office (VRF Conditioning System)
- Block 46 for SODIC Company (Infrastructure (Domestic, Irrigation and Sewage Water) Project)

Job title : Mechanical Engineer

Job Description :

- MEP Site Engineer for fire-fighting & HVAC (DX system) at West Cairo & South Helwan Power Stations.
- Installation, testing and commissioning of the Fire Fighting systems.
- Revise drawings and designs and supervise the infrastructure work (Domestic Water, Irrigation & Firefighting) networks for SODIC Company.
- Supervise variable refrigerant flow (VRF) system installation as per required standards for Egy Mar Company.
- Receive all equipment, materials, and tools as requested and reconciling them with the requested orders to ensure accuracy, completeness, and condition of items.
- Review engineering drawings and designs, ensuring 100% compliance with standards, codes and the client requirements.
- Respond to requests for client work and proposals in a timely manner provided technical support, resolving 95% of issues within 24 hours.

Field of experience : Possess a range of valuable skills and qualities that have been honed through my professional experiences, including:

- Communication & Collaboration: Strong communication and

interpersonal skills developed through successful collaboration with cross-functional teams, including supervisors, technicians, and stakeholders, in various project environments.

- **Leadership & Team Management:** Proven leadership capabilities, demonstrated by successfully leading and managing cross-functional teams of 10-15 members, including piping supervisors, welders, fitters, riggers, and lathe operators, ensuring high performance, cohesion and achieving 98% project success rate.
- **High-Pressure Project Management:** Experienced in working under pressure in fast-paced environments, including high-stakes projects such as the 4800MW Beni Suef Power Station, delivering results within stringent timelines and high expectations.
- **Project Planning & Execution:** Proactive in developing detailed micro-plans for construction work packages, enabling precise tracking and timely execution of tasks. Skilled at managing project scope, defining realistic timelines and meeting scheduled milestones. Improved productivity by 30% through efficient task prioritization.
- **Performance Monitoring:** Regularly attend project review meetings to monitor progress, track key performance indicators (KPIs), and address potential project risks or issues before they escalate.
- **Strategic Decision-Making:** Skilled in strategic resource allocation, optimizing team performance and resource use while ensuring the project stays on schedule and within budget.
- **Problem-Solving & Innovation:** Strong technical acumen and a passion for tackling complex challenges. Known for finding innovative solutions to overcome obstacles and ensuring project success.
- **Quality & Safety Compliance:** Conduct inspections and verifications for RFIs (Requests for Information) during construction, ensuring compliance with safety standards, company policies, and HSE requirements.
- **Reporting & Documentation:** Expert at preparing clear and concise technical reports, capturing project progress, issues, and solutions for various stakeholders.
- **Budget & Cost Control:** Experienced in budget review and approval, prioritizing tasks, identifying dependencies, and managing project budgets to optimize cash flow and financial outcomes.
- **Stakeholder Engagement:** Interface with clients and external agencies, ensuring that technical specifications, approvals, and quality standards are met. Manage corrective actions for any deviations related to project plans, costs, schedule, quality, HSE, performance, operability, and maintainability.
- **Quality Assurance & Compliance:** Track and analyze project activities with an emphasis on maintaining high-quality standards, adhering to specifications, drawings, and codes. Improved quality ratings through rigorous inspection protocols. Regularly review schedules and manage budgets to ensure financial and operational success.