



Maged Ahmed

Senior Mechanical Engineer

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Personal Details: Alexandria, Egypt • Egyptian

PMP-certified accomplished engineer with over 13 years of experience spearheading complex projects from inception to completion within defined time, budget, and quality parameters in close collaboration with multi-disciplinary teams across high-stakes environments. Credible history of directing all MEP engineering activities, ensuring alignment with technical specifications and contractual obligations by providing strategic insights to project managers and facilitating seamless project execution and risk mitigation. Adept at reviewing designs, initiating RFIs and DCRs, and securing client approvals. Excel in developing and implementing rigorous quality control protocols, drafting detailed technical submittals, method statements, and completion documents to streamline approval processes.

- Demonstrates strong leadership in supervising teams and proactively resolving on-site challenges, ensuring continuous progress and adherence to high performance and quality standards.
- Committed to continuous improvement, effectively combining technical expertise with decisive management capabilities to drive efficient MEP operations and successful project delivery.
- Proficient in procurement coordination, Site Acceptance Testing (SAT), Root Cause Analysis, MEP equipment installation and maintenance, method statement preparation, Inspection Test Plan (ITP) development, Material Take-Offs (MTO), NCR/CAR handling, and naval mechanical systems – with solid coordination experience across hydraulic and electrical interfaces.
- Bilingual communicator: fluent in Arabic (native) and proficient in English.

Areas of Expertise

- Mechanical Engineering Operations Management
- Technical Project & Programme Lifecycle
- Problem-solving & Technical Troubleshooting
- Risk Assessment & Mitigation
- Strategic Planning & Implementation
- Team Building, Leadership & Training
- Regulatory Compliance & Guidelines
- Quality Assurance & Control
- Site & Construction Management
- Equipment Repair & Maintenance
- Site Engineering Co-ordination
- Technical Reporting & Documentation

Professional Experience

Black Arrow-Division Fifty – KSA

Oct 2024– Present

Senior Mechanical Engineer – King Salman Park (\$1.6B)

(Currently on company approved leave after project completion)

- Managed mechanical scope for major infrastructure development, coordinating permanent and temporary works to align with project goals.
- Facilitated RFIs, shop drawing reviews, and subcontractor coordination to ensure smooth execution and quality assurance.
- Led testing, commissioning, and handover processes across critical mechanical systems.

Qatar Building Company (QBC) – Qatar

March 2016 – Oct 2024

Senior Mechanical Engineer – Qatar Emiri Naval Forces Base New Port Project Infrastructure and Utility Buildings (\$800M)

- Directed all MEP engineering activities, including permanent and temporary works, design coordination, and complex functions, ensuring alignment with technical specifications and contractual obligations.
- Led all facets related to implementation, testing, and commissioning of infrastructure utilities and building services – including internal and external systems such as potable water, irrigation water, foul water, firefighting, plumbing and drainage, HVAC, fuel, compressed air, and Sewage Treatment Plant (STP), ensuring compliance with project specifications and relevant standards.
- Provided regular feedback to the project leadership and management team on progress, key issues, and potential risks to support informed decision-making and ensure smooth day-to-day execution.
- Reviewed designs and issued RFIs and DCRs to resolve ambiguities and ensure design clarity and compliance.
- Reviewed and coordinated shop drawings, ensuring timely client approvals and alignment with construction and design intent.
- Prepared and evaluated material submittals and prequalification documents to secure consultant/client approvals in accordance with project requirements.
- Developed and reviewed method statements and Inspection Test Plans (ITPs) to secure approvals and ensure proper execution of site activities.
- Led procurement coordination to ensure timely availability of materials and services as per project specifications and execution plans.
- Monitored project budgets and controlled costs by reviewing and validating BOQs, tracking expenditures, and verifying and approving subcontractor and supplier payment certificates in coordination with relevant teams to ensure accuracy, compliance, and alignment with contract terms.
- Ensured compliance with project specifications and final construction drawings by supervising site execution, commissioning, and successful handover of services.
- Generated accurate Material Take-Offs (MTOs) in response to Variation Order Instructions issued by the client, supporting change management processes.
- Implemented and maintained robust Quality Assurance and Control (QA/QC) systems in alignment with industry best practices and project standards, while proactively managing Non-Conformance Reports (NCRs) and Corrective Action Reports (CARs) using root cause analysis and statistical methods to drive continuous improvement and ensure regulatory compliance.
- Reviewed subcontractor contracts and scope of work to confirm alignment with project deliverables and technical requirements.
- Issued completion and handover letters for Taking Over Certificates (TOCs), ensuring all works were verified, tested, and approved for final acceptance.
- Maintained clear communication with engineering teams, stakeholders, and HSE personnel, promoting collaboration, safety, and compliance throughout the project lifecycle.

Mechanical Engineer – Sewage Water Treatment Plant (Under Construction)

Oversaw successful execution of all mechanical equipment installation activities regarding wastewater treatment plants for ensuring timely completion and obtaining requisite approvals. Formulated and delivered technical submittals, compliance statements, Factory Acceptance Test (FAT), and Site Acceptance Test (SAT) schedules for streamlined processes and compliance. Orchestrated compilation and authorisation of essential documents for work completion, like Manufacturer Dossier, As-Built drawings, and Operation & Maintenance (O&M) manuals to drive project efficiency and documentation accuracy. Drafted detailed periodic progress reports, including weekly, biweekly, monthly, and project inspection along with close-out reports that supported in initiating informed decision-making and project oversight.

- Shaped and attained approvals for method statements with proficiency in project management and regulatory compliance.
- Optimised material selection and requisition processes for site installation and maintenance for optimum cost-effectiveness and timely delivery of supplies.
- Supervised all mechanical works by following adherence to contractual obligations and stringent quality control standards, resulting in error-free installations.

Maintenance & Operation Mechanical Engineer at Sewage Water Treatment Plant

Interpreted blueprints, technical drawings, schematics, and computer-generated reports to facilitate efficient maintenance operations and minimise downtime. Liaised with engineering and operational teams to apply viable operating procedures, resolve system malfunctions, and demonstrate technical expertise, aimed at ensuring uninterrupted plant operations. Evaluated and validated customer design proposals, specifications, and manuals by assessing feasibility, cost implications, and maintenance requirements. Oversaw installation, operation, maintenance, and repair activities, ensuring adherence to specifications and regulatory standards, and facilitating seamless plant operation. Organised thorough research, installation, operation, and maintenance of mechanical products, equipment, and systems by leveraging engineering principles for optimal functionality.

- Shaped and attained approvals for method statements with strong skillset in project management and regulatory compliance.
- Played a pivotal role in specifying system components and directing equipment modifications aligned with engineering standards with optimum performance.
- Diagnosed equipment failures and operational issues by providing timely recommendations to maintenance crew for reducing minimising downtime and maximising productivity.

Egyptian Naval Forces – Egypt**2011 – 2014****Mechanical Engineer (Maintenance & Repair) at Egyptian Navy Shipyard****2013 – 2014**

Implemented effective shock-absorbing checks and testing protocols for engine mounting, resulting in enhanced operational stability and reduced risk of damage. Disassembled and assembled various types of couplings for propeller shafts for streamlined maintenance and repair processes. Carried out all maintenance tasks for shuttle systems, particularly Z drives for improving system reliability and operational effectiveness.

- Achieved precise shaft alignment by utilising Manual, Dial Gauge, and Laser alignment methods, ensuring optimal equipment performance and longevity.
- Executed precise disassembly, assembly, and adjustment of bearing clearances for propeller shafts for amplifying operational efficiency and reliability.
- Accomplished seamless maintenance and repair tasks for Controllable Pitch Propellers and Fixed Pitch Propellers, ensuring their continued optimal performance.

Mechanical Engineer (Maintenance & Operation) at Warship**2011 – 2013**

Spearheaded successful execution of overhauls for vital ship components, such as compressors, generators, pumps, and valves on all entry into The Egyptian Navy Shipyard for optimal functionality and reliability of the vessels. Orchestrated entry and exit procedures of ships from synchro lift by exhibiting meticulous planning and adherence to strict safety protocols.

- Accomplished significant sea service tenure aboard a vessel equipped with the Main Engine "12VE230ZC 2500 hp", managing a fleet of four engines totalling 10K hp, accruing a remarkable 20 months of service from 2011 to 2013.
- Played a pivotal role in preparing ships for sailing, implementing rigorous checks and procedures to guarantee readiness for deployment, contributing to the operational efficiency of naval operations.
- Showcased exceptional seamanship skills by navigating ships through challenging weather conditions, ensuring the safety and security of crew and vessel during challenging voyages.

Education & Credentials

Post Graduate Diploma in Mechanical Engineering, 2012 | Arab Academy for Science & Technology – College of Engineering & Technology,

Bachelor of Science in Mechanical Engineering, 2010 | Alexandria University – Faculty of Engineering.

Certifications & Professional Development

- **Project Management Office Certified Professional (PMOCP™)** – Project Management Institute (PMI), Certified August 2025
- **Risk Management Professional (RMP®)** – Project Management Institute (PMI), Certified July 2025
- **Project Management Professional (PMP®)** – Project Management Institute (PMI), Certified July 2025
- Approved by the Saudi Council of Engineers (SCE) (Membership ID: 1112061)
- Techno Service – Alexandria, Egypt
- S.A.E (Al EzzDekheila Steel Company – Alexandria, Egypt)
- Safety: OSHA 30-hour training course – General Industry – certified

Technical Proficiencies

MS office (word, excel, power point, access, internet) – certified | AutoCAD (2D & 3D) – certified