

# Abd El Aziz Mahmoud Mohamed

Project Management Professional Certified (PMP®) - Project Management Institute

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## Summary

Experienced Mechanical Construction Manager with over 14 years of expertise in overseeing and executing large-scale mechanical construction projects. PMP® certified, skilled in managing diverse teams, and delivering complex mechanical systems such as HVAC, fire fighting, plumbing, reverse osmosis (RO), sewage treatment plants (STP), and piping networks. Proficient in international design codes and standards (ASME B31.3, ASHRAE, NFPA, IPC) with a strong background in piping fabrication and erection across multiple industries, including water desalination, infrastructure, and energy. Known for driving projects ahead of schedule, optimizing costs, and maintaining stringent quality control standards. Proven ability to lead teams, manage resources, and deliver projects on time while exceeding client expectations.

## Skills

- Project Management (PMP® Certified)
- Team Leadership & Coordination
- Risk Management & Mitigation
- Time Management & Scheduling
- Budgeting & Cost Management
- Subcontractor Coordination
- Client Relationship Management
- Planning & Organization
- Communication Skills
- AutoCAD & Autodesk Inventor
- Mechanical Systems Design
- Piping Fabrication & Erection
- HVAC Systems
- Fire Fighting Systems
- Plumbing Systems
- Sewage Treatment Plants (STP)
- Water Desalination Plants
- Piping Design (ASME B31.3, P&ID, Isometric Drawings)
- Infrastructural Networks & Utilities

## Experience

### Zaid El Hussein Group | Riyadh, Saudi Arabia

Mechanical Construction Manager | Sep 2023 to Present

**Project:** King Abdullah International Gardens

- Spearheading the project towards early completion, consistently demonstrating strong leadership and efficient project management skills.
- Leading a diverse team of 20+ engineers and subcontractors, fostering seamless collaboration and ensuring high performance under tight project timelines.
- Reviewing and approving shop drawings, bills of quantity, and mechanical specifications, ensuring alignment with design standards and client requirements.
- Implementing robust quality control systems, ensuring all mechanical installations meet client specifications and industry standards with zero rework.
- Providing detailed weekly and monthly progress reports to senior management, proactively addressing challenges and highlighting key project milestones.
- Streamlining material procurement and logistics, reducing overall costs while ensuring on-time delivery of critical resources according to the project schedule.

### Hassan Allam Construction | Cairo, Egypt

Mechanical Section Head Engineer | Oct 2019 to Sep 2023

**Projects:** Squash Hotel, Conference Hall, Historical City, Data Center

- Supervised and coordinated over 50 mechanical engineers and subcontractors, successfully managing mechanical activities on multiple high-profile projects.
- Developed and implemented a streamlined workflow for mechanical systems installation, reducing overall project completion time.
- Established quality assurance protocols that improved on-site efficiency and led to an improved safety record with zero major incidents.
- Delivered mechanical systems on time and within budget by closely monitoring project progress and resolving any roadblocks promptly.
- Collaborated effectively with project managers and other departments, ensuring seamless integration of mechanical systems with other construction disciplines.
- Trained and mentored junior engineers, fostering the development of high-potential talent and ensuring technical excellence across the team.

### Orascom Construction Industrial | Cairo, Egypt

Senior Piping Engineer | Sep 2016 to Sep 2019

**Projects:** New Art & Culture City, ERC Petroleum Refinery Laboratory

- Directed the fabrication and erection of all piping systems, ensuring adherence to ASME B31.3 standards, P&ID, and isometric drawings.
- Coordinated cross-functional teams to ensure smooth execution of piping installations across multiple projects simultaneously.
- Managed the implementation of safety measures, leading to zero safety incidents in high-risk areas of the project.
- Improved installation efficiency by implementing advanced techniques for welding and pipe fabrication, reducing project delays.
- Performed rigorous quality control and inspection, ensuring that all piping systems met the highest industry standards.
- Resolved technical challenges related to materials and design, minimizing delays and avoiding costly changes to the project scope.

### Tabarak for Engineering and Construction | Cairo, Egypt

Senior Infrastructural Engineer | Nov 2015 to Sep 2016

**Client:** Holding Company for Water and Wastewater

- Led the fabrication and installation of high-density polyethylene (HDPE) potable and sewage piping networks, improving infrastructure resilience in urban areas.
- Coordinated with clients and contractors to establish detailed timelines, achieving a 100% on-time project delivery rate.
- Oversaw the design and implementation of infrastructural systems that supported over 500,000 residents in the service area.
- Conducted thorough site assessments, identifying potential issues early and implementing corrective measures that resulted in cost savings.
- Ensured compliance with local regulations and environmental standards, mitigating any risk of project delays due to legal or environmental issues.
- Developed and maintained strong relationships with stakeholders, ensuring customer satisfaction and facilitating smooth project execution.

## Woqod Misr for Oil Services and Gas Projects | Cairo, Egypt

Infrastructural Engineer | Sep 2014 to Oct 2015

**Client:** Ripco Gas (TAQA Arabia)

- Led the fabrication and installation of over 100,000 meters of HDPE natural gas piping networks, contributing to improved energy access for residential customers.
- Coordinated with cross-functional teams to ensure adherence to safety standards, achieving a 100% safety compliance rate.
- Managed the installation of high-pressure systems, ensuring that all installations were completed with zero accidents or disruptions.
- Developed and implemented cost-effective solutions, reducing material waste and optimizing the efficiency of installation operations.
- Provided technical expertise in resolving complex issues during installation, ensuring that all projects were completed on schedule.
- Ensured strict compliance with client specifications, resulting in successful project sign-offs and high customer satisfaction.

## Ridgewood Egypt | Cairo, Egypt

Project Site Engineer | Jan 2012 to Sep 2014

**Project:** Sea Water Desalination

- Led the fabrication and installation of seawater desalination plants, achieving performance efficiency levels that surpassed initial expectations.
- Spearheaded the use of advanced energy recovery technology, significantly reducing energy consumption and operational costs.
- Managed a cross-disciplinary team, ensuring that mechanical and electrical installations aligned with project timelines and client specifications.
- Implemented rigorous quality control systems that resulted in minimal downtime and ensured continuous project progression.
- Played a pivotal role in troubleshooting and resolving technical issues related to desalination units, maintaining smooth project operations.
- Coordinated with local and international suppliers, ensuring that all project materials met required standards and were delivered on time.

## Accomplishments

- Awarded Best Site Engineer during tenure at Woqod Misr.
- Successfully led mechanical activities across major construction projects, consistently exceeding quality and timeline expectations.

## Certifications

- Project Management Professional (PMP®) – Project Management Institute
- Certificate of Best Site Engineer, Woqod Misr Company

## Education

- **Ain Shams University, Cairo, Egypt | 2011**
- Bachelor of Engineering in Mechanical Department
- **Grade:** Good

## Languages

- **Arabic:** Native
- **English:** Advanced