

Mohamed Said Elwrdany PMP[®], LEED-GA[®]

MEP Manager / Senior Mechanical Engineer

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Iqama Status: Transferable | Nationality: Egyptian | Date of Birth: 1978 | Alexandria University 2000

Professional Summary

Experienced MEP Manager and Senior Mechanical Engineer with a strong background in leading and managing large-scale projects as contractor or consultant. Adept at overseeing projects from design to completion, including site management and value engineering. Proven track record in supervising and coordinating MEP systems across a range of sectors including security, healthcare, education, sports, entertainment, and judicial facilities.

Professional Experience

Senior Consultant Mechanical Engineer | SAUDCONSULT OFFICE, KSA | 2022 – Present

- **Technical support and overseeing Saudi Space Agency projects.**

Overseeing MEP systems for core & shell fit-out project for SSA Tower in KAFD (Cost:130M SR) and SSA Buildings in KAUST.

project includes Chilled Water District Cooling Ac Units, In-row Cooling Units for Data Center, VRV Units. Dealing with KAFD Requirements (RFI, Isolation, Deisolation, Design Change General Work Permit...).

- **Key Responsibilities:**

- Supervised site execution of mechanical systems (HVAC, plumbing, and fire protection) to ensure compliance with approved drawings, specifications, and local/international standards.
- Reviewed and approved material submittals, shop drawings, method statements, and technical queries submitted by contractors.
- Monitored construction progress and provided regular updates and reports to the client and project management.
- Conducted inspections, testing, and commissioning of mechanical systems; ensured works were completed to quality standards and contractual obligations.
- Coordinated with architectural, structural, and electrical supervision resolve on-site clashes and ensure interdisciplinary integration.
- Attended site meetings with contractors and clients; issued non-conformance reports (NCRs) and followed up on corrective actions.

• **Oversee the King Abdullah Project for judiciary facilities development** (Cost: 800M SR).

- **Key Responsibilities:**

- Mechanical lead in core team for 27 sites
- Led mechanical supervision efforts across multiple high-profile project sites, ensuring consistent implementation of HVAC, plumbing, and fire protection systems in line with approved designs and engineering standards.
- Acted as the primary point of contact between the consultant's core team and site-based supervision teams; provided technical guidance, clarification, and support for resolving complex on-site issues.
- Reviewed and unified contractor submittals (shop drawings, materials, method statements) to maintain design integrity and coordination across sites.
- Conducted regular site visits, audits, and inspections to ensure mechanical works met quality, safety, and compliance benchmarks.
- Coordinated with design teams and senior project stakeholders to implement design revisions, value engineering proposals, and technical recommendations.
- Oversaw testing, commissioning, and handover processes across all project locations, ensuring readiness and full documentation in line with contractual and regulatory requirements.
- Contributed to lessons-learned reports and process improvements for future projects handled by the consultancy.

Senior Mechanical Engineer | MOBCO Construction Co, KSA | 2021 – 2022

Worked on As Safiyah Museum and Park (Cost: 115M SR).

- **key responsibilities:**

- Supervised and managed the execution of HVAC, plumbing, and fire protection systems on-site in accordance with approved designs and specifications.
- Coordinated with subcontractors, suppliers, and other trades to ensure timely project delivery and compliance with safety and quality standards.
- Reviewed shop drawings, material submittals, and ensured adherence to project schedules and budgets.
- Resolved technical issues during construction by liaising with consultants, architects, and project managers.
- Conducted site inspections and prepared daily/weekly progress reports.
- Ensured compliance with local codes, standards, and client specifications.

Project Manager | Thabatco Technical Co.), KSA | 2021

Appointed as Project Manager for the external firefighting network project at The Logistic Park for the owner Kaden Investment. (6 km length HDPE network with all fire hydrant and FHC Including 3 pump rooms using both welding methods Electrofusion and butt fusion).

- **key responsibilities:**

- Managing the project including shop drawings, material, site supervision, installation, testing, and commissioning.
- Ensured project compliance with Saudi Civil Defense requirements and coordinated directly with the owner's engineering team.
- Delivered the project successfully within the planned schedule and quality standards.

MEP Manager / Senior Mechanical Engineer | REMAL ALSAWAHEL CO, KSA | 2013 – 2020

Achieving Many Projects with **Ministry of Sports**

including Al Raed Sports Club, Okaz Sports Club, and Al Batin Sports Club.

Every club included Administration Buildings, Semi-Olympic Swimming Pool, Sports Hall, Jacuzzi, Sauna, Football Fields (artificial and natural grass), Hunter and Rain-Bird Irrigation Systems, and Stadiums.

- key responsibilities:

- Managed end-to-end execution of all MEP (Mechanical, Electrical, Plumbing) systems on-site, ensuring compliance with project specifications, approved drawings, and industry standards.
- Led a multidisciplinary team of engineers, supervisors, and subcontractors across HVAC, plumbing, fire protection, electrical, and ELV systems.
- Oversaw planning, procurement, installation, testing, and commissioning of MEP systems, ensuring works were completed on time, within budget, and to required quality levels.
- Reviewed project drawings, coordinated with consultants and other trades to resolve technical conflicts, and implemented design modifications when required.
- Ensured timely submission and approval of shop drawings, material submittals, method statements, and RFIs.
- Chaired MEP coordination meetings and liaised with civil, structural, and architectural teams to ensure proper site integration and sequencing.
- Monitored progress against project schedules, prepared look-ahead plans, and implemented corrective actions to mitigate delays.
- Managed inspections with consultants and third parties, supervised snagging and de-snagging activities, and led final testing and commissioning of all MEP systems prior to handover.

Senior Design & Supervision Consultant Mechanical Engineer | Ibrahim Zamandar Consulting & Engineering Office, KSA | 2011 – 2013

Worked on International Aviation Technical College in Riyadh (in partnership with BOEING then Australia Aviation) (Cost: 150M SR) as supervision consultant and worked on various vocational institutes as design.

- key responsibilities:

- Supervised site execution of mechanical systems (HVAC, plumbing, and fire protection) to ensure compliance with approved drawings, specifications, and local/international standards.
- Reviewed and approved material submittals, shop drawings, method statements, and technical queries submitted by contractors.
- Monitored construction progress and provided regular updates and reports to the client and project management.
- Conducted inspections, testing, and commissioning of mechanical systems; ensured works were completed to quality standards and contractual obligations.
- v Coordinated with architectural, structural, and electrical supervision teams to resolve on-site clashes and ensure interdisciplinary integration.
- b Attended site meetings with contractors and clients; issued non-conformance reports (NCRs) and followed upon corrective actions.
- Advised on value engineering options and construction feasibility during project implementation.

Mechanical Engineer | Arkal Contracting Establishment, KSA | 2008 – 2010

Work as technical office and site engineer in General Security Forces projects in Riyadh, Hafer Albatin, and Al Madinah Al Monawara.

- **key responsibilities:**

- Supervised and managed the execution of HVAC, plumbing, and fire protection systems on-site in accordance with approved designs and specifications.
- Coordinated with subcontractors, suppliers, and other trades to ensure timely project delivery and compliance with safety and quality standards.
- Reviewed shop drawings, material submittals, and ensured adherence to project schedules and budgets.
- Resolved technical issues during construction by liaising with consultants, architects, and project managers.
- Conducted site inspections and prepared daily/weekly progress reports.
- Ensured compliance with local codes, standards, and client specifications.

Mechanical Engineer | Airline HVAC Company, Egypt | 2006 – 2008

Worked on HVAC systems for various centers, companies, and hospitals including Mostafa Kamel Military Hospital.

- **key responsibilities:**

- Assisted in the preparation and review of HVAC shop drawings, material submittals, and load calculations in accordance with project requirements and specifications.
- Supported site engineers and project managers in the installation, testing, and commissioning of HVAC systems (ductwork, chilled water piping, equipment).
- Coordinated with suppliers for material procurement and ensured timely delivery of HVAC equipment and accessories.
- Conducted quantity take-offs and prepared BOQs for HVAC materials and components.
- Attended site meetings with senior engineers and contractors to understand project progress and resolve minor technical issues.
- Assisted in the supervision of duct installation, insulation, and equipment placement (AHUs, FCUs, exhaust fans, etc.) as per approved drawings.
- Prepared daily site reports and documentation, including progress updates and installation checklists.
- Ensured all HVAC works complied with safety regulations and followed proper site procedures.
- Supported testing and commissioning activities by assisting with air balancing, pressure testing, and system performance checks.

Mechanical Engineer | Egyptian Military Production Ministry, Abu Qir Engineering Industries Co., Egypt | 2002 – 2006

- Involved in production and maintenance, installation of production lines, and experience with sheet metal forming machines.

Education

Bachelor of Engineering | Faculty of Engineering, Alexandria University, Egypt | 2000

Major: Mechanical Power Engineering

Certifications

- Certified Mechanical Engineer, Egyptian Syndicate of Engineers
- Certified Mechanical Engineer, Saudi Council of Engineers
- Certified PMI - Project Management Professional (PMP)®
- Certified LEED -Green Associate (LEED- GA) ®
- Approved as Mechanical Engineer for General Security Projects Administration, KSA (2008)
- Approved as Senior Consultant Mech Eng for Technical and Vocational Training Corporation (2010)
- Approved as Senior Mechanical Engineer for Ministry of Sports, KSA (2013)
- Approved as Senior Consultant Mech Eng for Ministry of Justice, KSA (2022)
- Approved as Senior Consultant Mech Eng for Saudi Space Agency, KSA (2023)

Skills

- MEP system estimation and scope management
- Contract document review and modification
- MEP subcontractor management
- Shop drawing, material and equipment approval
- Installation, commissioning, and start-up of MEP systems
- Project coordination and reporting
- AutoCAD and Microsoft Office proficiency
- Hap for cooling load calculation
- Elite for Fire Fighting hydraulic calculation
- Familiar with Revit.
- Familiar with Primavera and MS project.

Training Capabilities

- PMI-PMP course.
- LEED Green Associate Course.
- Carrier Cooling Load Calculation Program (HAP).
- IDEAS Program (Mechanical Drawing and Design).
- Intermediate English Language Course (12 levels).

Languages

Arabic: Native

English: Very Good (B2)