

# Khalid Mohsen Ali Hussien Senior Mechanical Engineer

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## Career Summary

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As a seasoned Mechanical Senior Engineer with 16 years of experience in KSA, I have honed my skills and expertise in overseeing various aspects of mechanical projects. My role has encompassed diverse responsibilities aimed at ensuring the successful completion of projects while upholding quality standards and meeting project timelines.

One of my primary responsibilities has been supervising mechanical jobs based on shop drawings and specifications. This involves closely monitoring the progress of mechanical tasks, ensuring they align with project requirements and standards. Additionally, I have been responsible for preparing comprehensive progress reports on a weekly and monthly basis. These reports serve as vital tools for assessing project progress, identifying potential bottlenecks, and implementing corrective measures to keep the project on track.

In my capacity as a Mechanical Senior Engineer, I have also been actively involved in managing material submittals and requests. This includes coordinating with procurement teams to ensure the timely procurement of required materials and equipment, essential for the smooth execution of mechanical tasks. Furthermore, I have played a key role in facilitating coordination among multidisciplinary teams, including civil, architectural, electrical, and mechanical teams. This collaborative approach has been instrumental in streamlining workflow and minimizing conflicts during project execution.

Moreover, my role involves maintaining strict adherence to contract specifications and approved design drawings. I am responsible for initiating inspection requests for completed work, ensuring that all mechanical installations meet the required quality standards. Additionally, I actively participate in updating drawings to reflect any modifications or changes, contributing to the development of accurate as-built drawings.

## Skills

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### Hard Skills (Core Competencies)

Project Management | Engineering Design | Construction Management | Risk Assessment | Cost Estimation and Control | Quality Assurance and Control | Resource Allocation | Technical Proficiency | Resource Allocation | Delay Analysis | Civil Engineering

### Personal Skills

Analytical Thinking | Problem-solving and effective decision-making | Team Collaboration | Agility & frugality | Adaptability | Attention to Detail | Leadership Project leadership and team guidance | Time Management | Ethical Conduct Interpersonal Skills | Continuous Learning | Time Management | Functional Competencies | Communication Creativity | Well Organized | Adaptability | Negotiation, Procurement.

### Technical Skills

Microsoft Office | ICDL (Microsoft Word, Excel, PowerPoint) | AutoCAD

### Languages Skills

Arabic (Mother Tongue) | English (Very good Reading, Writing, and Speaking) | French (Limited Knowledge)

## Work Experience

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### Senior Mechanical Engineer | Mofarreh Marzouq Al Harbi & Partners Co. Ltd.

Jul 2023 – present | Saudi Arabia

- Project: Tabuk Magazine Expansion Works (AT TABUK)
- Prepared Material submittals and Material requests under project requirements.
- Followed up on Purchase Orders to ensure timely procurement of necessary materials.
- HDPE Pipe Installation:
  - Oversaw the installation of HDPE Pipes for firefighting networks.
  - Managed pipes with a diameter of 250 mm and a total length of 8200 meters.
  - Installed Wet Barrel Fire Hydrants as per project specifications.
  - Ensured proper installation of washout and air release valve chambers for the firefighting network.
  - Supervised the installation of GRP tanks along with CPVC and carbon steel piping networks.
  - Managed the installation of 7 tanks, each with a firefighting capacity of 100 cubic meters.

- Led the installation of firefighting pumps to ensure adequate fire protection measures.
- Installed diesel systems, including diesel FRP tanks, to support firefighting operations.
- Coordinated closely with project stakeholders including subcontractors, suppliers, and project management teams.
- Provided supervision and guidance to ensure that mechanical activities were executed in compliance with project specifications and safety standards.
- Prepared weekly and monthly progress reports to monitor project advancement.
- Maintained accurate documentation related to material submittals, purchase orders, and work completion records.
- Ensured that all mechanical works were carried out under contract specifications and approved design drawings.
- Implemented necessary quality assurance measures and documented work progress for quality control purposes.
- Updated drawings to reflect any modifications or changes approved during the construction phase, ensuring the accuracy of as-built drawings for future reference.

## **Senior Mechanical Engineer | Mofarreh Marzouq Al Harbi & Partners Co. Ltd.**

Jul 2022 – Jul 2023 | Saudi Arabia

- Project: Business Hub (AT NEOM)
- Led the installation of HDPE pressurized pipelines, which included valve chambers for potable water, irrigation, and firefighting networks.
- Supervised the installation of pipelines with a total length of 12 kilometers to meet project specifications.
- Tank Installation:
  - Coordinated the installation of GRP tanks along with CPVC and carbon steel piping networks.
  - Managed the installation of 21 tanks, each with capacities for potable water, irrigation, and firefighting, totaling 120 cubic meters.
- Pump Installation:
  - Directed the installation of pumps for potable water, irrigation, and firefighting systems to ensure proper functionality.
- Plumbing Works:
  - Supervised plumbing works to ensure efficient distribution of water supply within the business hub.
- Coordination and Collaboration:
  - Collaborated closely with various stakeholders, including subcontractors, suppliers, and project management teams, to achieve project milestones.
  - Coordinated mechanical activities with civil, architectural, and electrical works to ensure seamless integration and project progress.
- Documentation and Reporting:
  - Maintained detailed documentation of project activities, including progress reports, material logs, and inspection records.
  - Generated reports to provide insights into project status and identify areas for improvement.
- Quality Assurance:
  - Implemented quality assurance measures to ensure that all mechanical works met project specifications and regulatory standards.
  - Conducted regular inspections and quality checks to verify the integrity of installations and adherence to safety protocols.
- Project Management:
  - Assisted in project planning and scheduling activities to optimize resource allocation and meet project deadlines.
  - Provided technical expertise and guidance to the project team to resolve any mechanical-related issues and challenges.

## **Executive Engineer - Mechanical | Mofarreh Marzouq Al Harbi & Partners Co. Ltd.**

Feb 2019 – Jul 2022 | Saudi Arabia

- Projects: Treated Sewage Effluent Overall Improvements at El DEFFI – Jubail (with Royal Commission) & Jubail University College (JUC)
- Led the mechanical supervision activities for the Treated Sewage Effluent Overall Improvements project at El DEFFI – Jubail and Jubail University College.
- Coordinated closely with project stakeholders, including subcontractors, suppliers, and project management teams, to ensure smooth project execution.
- Oversaw the preparation of material submittals and requests to facilitate procurement processes.
- Monitored the delivery of materials and equipment to ensure timely availability at the project site.
- Supervised the installation of irrigation pipeline networks, including GRP pipes ranging from 700mm to 1800mm in diameter.
- Managed the installation of RTR pipes for potable water distribution, including tie-ins with live lines.

- Oversaw the installation of valve chambers to regulate flow and pressure within the pipeline networks.
- Executed the installation of pre-insulated carbon steel pipes for chilled water supply and return lines within the JUC campus.
- Coordinated with other contractors working within the JUC premises to ensure seamless integration of mechanical systems.
- Supervised micro tunneling activities, including investigation work, sheet piling installation, and steel pipe sleeve pushing.
- Ensured the proper installation of carrier pipes within the steel pipe sleeves to meet project requirements.
- Managed the installation of chilled water valve chambers to control the flow and temperature of chilled water within the project area.
- Maintained accurate documentation of project activities, including daily reports, progress logs, and quality inspection records.
- Generated reports to update project stakeholders on the progress, issues, and resolutions related to mechanical works.
- Implemented quality assurance measures to verify compliance with project specifications and regulatory standards.
- Conducted regular inspections and quality checks to ensure the integrity and functionality of mechanical installations.
- Assisted in project planning, scheduling, and resource allocation to optimize project outcomes and meet deadlines.
- Provided technical expertise and guidance to project teams to resolve mechanical-related challenges and ensure project success.

## **Mechanical Engineer (MEP) | Azmeel Construction Company**

Apr 2015 – Feb 2019 | Saudi Arabia

- Project: Ras AL-Khair Industrial Zone Phase 2
- Oversaw the mechanical aspects of the Ras Al-Khair Industrial Zone Phase 2 development project.
- Managed a team of mechanical engineers and technicians to ensure efficient execution of project tasks.
- Supervised the installation of the stormwater drainage network using RPM pipes.
- Ensured proper alignment and grading of drainage pipes to facilitate efficient water flow and prevent flooding.
- Water Distribution Systems:
  - Managed the installation of potable, process, and firewater distribution networks, including pump stations and storage tanks.
  - Coordinated with civil and electrical teams for the integration of mechanical systems into the overall project.
  - Supervised the installation of sanitary wastewater collection networks, including pump and lift stations.
  - Ensured the proper laying of RTR pipes and UPVC pipes for sanitary waste disposal.
  - Managed the installation of industrial wastewater collection networks, including pump stations and lift stations.
  - Oversaw the connection of industrial facilities to the wastewater collection system.
  - Prepared material submittals and requests to support the procurement process.
  - Coordinated with suppliers to ensure timely delivery of materials and equipment to the project site.
- Quality Assurance and Compliance:
  - Implemented quality assurance measures to ensure compliance with project specifications and industry standards.
  - Conducted regular inspections and quality checks to verify the integrity of mechanical installations.
  - Maintained detailed documentation of project activities, including progress reports, inspection records, and material logs.
  - Generated reports to update project management on the status of mechanical works and any issues encountered.
  - Conducted site surveys to gather data for material quantity estimation and project planning.
  - Collaborated with surveying teams to ensure accurate measurement and recording of site dimensions.

## **Executive Engineer - Mechanical | Degla Group For Investment - Meamaar Al Morshedy**

Jun 2014 – May 2015 | Egypt

### **Grand Gate Project**

- Supervised the installation of mechanical systems, including HVAC, plumbing, and firefighting, for the Grand Gate project in Maadi.
- Ensured compliance with project specifications and regulatory requirements.

### **Degla View Project**

- Managed the mechanical works, including the installation of HVAC systems and plumbing, for the Degla View project.
- Coordinated with subcontractors and suppliers to ensure timely delivery of materials and equipment.

### **Bavaria Project**

- Oversaw the mechanical installations for the Bavaria project, including HVAC ductwork and plumbing systems.
- Conducted quality inspections to verify the integrity and functionality of mechanical systems.

### **Kristal Plaza Project**

- Directed the mechanical works for the Kristal Plaza project, including the installation of HVAC equipment and piping systems.
- Implemented measures to optimize energy efficiency and sustainability of mechanical systems.

### **Rihana Project**

- Managed the mechanical aspects of the Rihana project, overseeing the installation of HVAC systems and plumbing infrastructure.
- Coordinated with other trades to ensure seamless integration of mechanical systems with the overall project design.

## **Executive Engineer - Mechanical | Inter Modern Contracting Company**

Jun 2009 – Jun 2014 | Egypt

### **Tiffany Shop at Cairo Festival City Project**

- Provided supervision for the installation of fire fighting and air conditioning systems at the Tiffany shop located within Cairo Festival City.
- Project Achievements: During my tenure at Inter Modern Contracting Company
- Ensured the proper functioning of fire suppression systems and HVAC equipment to maintain a safe and comfortable environment for occupants.
- Conducted quality inspections to verify compliance with project specifications and regulatory standards.

### **The Egyptian Society for Developing Skills of Children with Special Needs (January 2012 - June 2014)**

- Managed the plumbing and fire fighting system installations for a facility dedicated to the development of children with special needs.
- Ensured that the plumbing systems met the specific requirements of the facility, including accessibility and safety standards.
- Coordinated with architects, engineers, and contractors to integrate mechanical systems seamlessly into the facility's design.

### **Nasr City Project (June 2009 - December 2011)**

- Led the plumbing installations for 22 buildings in Nasr City, ensuring the efficient distribution of water supply and drainage systems.
- Supervised the implementation of the fire fighting system to enhance safety measures within the buildings.
- Collaborated with project stakeholders to meet project deadlines and specifications

## **Mechanical Site Engineer | Pharoen's Company**

Jan 2008 – Apr 2009 | Egypt

- Project Gharbia's Water Plants for Treatment of Mn and Fe Salts
- Played a crucial role as a Mechanical Site Engineer in the construction and installation of water treatment facilities aimed at addressing manganese (Mn) and iron (Fe) contamination in Gharbia.

## **Certificates & Training**

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**HVAC, Fire Fighting, Plumbing Design (Engineers House)** — Provided Me with comprehensive knowledge and skills in designing HVAC (Heating, Ventilation, and Air Conditioning), fire fighting, and plumbing systems for residential and commercial buildings. It may have covered design principles, codes, standards, and software tools used in the industry.

**Confined Space Entry Inspection** — Petroleum and Natural Gas Institute of Training & Technology | Completed a course on confined space entry inspection, emphasizing safety protocols, hazard identification, and risk assessment procedures associated with working in confined spaces within petroleum and natural gas facilities. Developed skills in conducting thorough inspections, implementing control measures, and ensuring compliance with safety regulations to prevent accidents and injuries in confined environments.

## **Education**

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### **Bachelor's Degree of Mechanical Power Engineering | Mansoura University**

Jun 2008 | Egypt

Project Name: Liquefied Natural Gas

Accumulated Grade: Good (73.13%)