

Khaled Sabae, PMP®, RMP®, GEN-AI®

Senior Mechanical Project Engineer

Contact Information

* Tabuk, Saudi Arabia

* Phone: 0563497240

* Email: Khalidhamdy50@gmail.com

* LinkedIn: <https://www.linkedin.com/in/khaled-sabae/>

Professional Summary

Senior Mechanical Project Engineer with extensive experience in managing diverse mechanical construction projects across commercial, industrial, residential, and large-scale energy infrastructure domains. Proven expertise in guiding high-performance teams to achieve top-quality results on complex projects, ensuring adherence to the highest industry standards. Known for my commitment to excellence, ability to optimize processes, and track record of delivering projects on time and within budget, with a strong focus on integrating AI for enhanced project outcomes.

Education

B.Sc. in Mechanical Engineering - Power Generation and Design

Arab Academy for Science, Technology, and Maritime Transport

Professional Experience

Mechanical Manager | Al-Fanar Company

Mowaih PV 380/110 kV BSP & Expansion, SEC Project | Feb 2025 – Present

- * Leading and managing specialized mechanical works (HVAC, Firefighting, and Plumbing systems) for the construction and expansion of the critical Mowaih power substation.
- * Responsible for ensuring all mechanical installations comply with Saudi Electricity Company standards and international codes, contributing to the enhancement of Saudi Arabia's renewable energy infrastructure.
- * Overseeing project execution, quality control, and HSE compliance for all mechanical activities on site.

* Coordinating with multidisciplinary teams to ensure seamless integration of mechanical systems with electrical and civil works. Developed and maintained project schedules and budgets, contributing to a 15% reduction in project timelines through efficient resource allocation.

Senior Mechanical Project Engineer | Al-Fanar Company

NEOM, Tabuk | Dec 2022 – Jan 2025

* Developed and maintained project schedules and budgets, contributing to a 15% reduction in project timelines through efficient resource allocation.

- * Collaborated with the project team to meet client requirements, achieving 100% approval on design specifications and compliance documents on the first submission.
- * Conducted proactive site inspections that ensured compliance with all relevant codes, reducing rework by 20% through early issue identification.
- * Reviewed and approved mechanical engineering design drawings, optimizing operational efficiency by 20% and ensuring high compliance standards.
- * Managed and mentored a team of junior engineers and technicians, increasing productivity by 15% through effective leadership and training.

****Senior Mechanical Project Engineer | Critical Engineering Company****

Ras Al Khair, Al-Jubail | Sep 2021 – Nov 2022

- * Supervised the construction of nine specialized storage tanks, meeting GB standards and achieving a 100% compliance rate on safety and quality audits.
- * Collaborated with project teams to deliver the storage tanks project 10% ahead of schedule and under budget, achieving top quality ratings in client satisfaction surveys.
- * Developed and maintained project schedules and budgets, enabling a 12% reduction in overall project costs through efficient resource management.
- * Conducted site inspections that led to a 15% reduction in safety incidents by identifying and resolving compliance issues early.
- * Led and mentored junior engineers and technicians, increasing overall team efficiency by 18% and enhancing technical skills through targeted training sessions.

Mechanical Engineer | InterContinental Hotels Group (IHG)

Holiday Inn Hotel Project, KSA, Al-Jubail | Oct 2020 – Aug 2021

- Supervised the construction of mechanical systems for the Holiday Inn Hotel, achieving 100% on-time milestone completion and a 98% quality compliance rate.
- Facilitated collaboration among architects, contractors, and engineers, reducing delays by 20% through proactive problem-solving and coordination.
- Enhanced construction quality and safety by implementing stringent monitoring processes, achieving zero safety violations throughout the project.

****Operation and Maintenance Engineer | First for Cranes****

Overhead Crane Factory | Jan 2020 – Sep 2020

- * Optimized machinery and equipment operations, increasing factory productivity by 15% through targeted maintenance strategies.
- * Developed and implemented maintenance schedules, reducing machinery downtime by 25% through effective preventative maintenance.
- * Led maintenance technicians, reducing maintenance time by 20% and ensuring timely completion of critical repairs.

****Mechanical Engineer | Pace Consulting Office****

Residential Villas Project in Dammam and Al-Khobar Al-Aziziya | 2017 – 2019

- * Led mechanical design and construction for 232 villas in Dammam and 250 in Al-Khobar, completing the project 10% ahead of schedule and achieving a 98% client satisfaction rate.

* Streamlined collaboration with architects, contractors, and engineers, reducing project delays by 15% and ensuring compliance with all client requirements.

* Enhanced compliance monitoring, resulting in zero quality violations and a 100% adherence rate to project standards.

Certifications

* PMP® (Project Management Professional) – PMI

* RMP® (Risk Management Professional) - PMI

* Generative AI Overview for Project Managers – PMI

* **Generative AI for Project Managers – IBM & Skill-Up EdTech (Completed: October 2024)**

* Includes: Generative AI Introduction, Prompt Engineering Basics, Generative AI for Project Management.

* **Engineering Project Management Specialization – Rice University (Completed: November 2024)**

* Includes: Initiating and Planning, Scope, Time and Cost Management, Risk, Quality, Teams, and Procurement, Professional Development Units: 38, R.E.P Number: 4528.

* **IBM AI Foundations for Business – Coursera (Completed: November 2024)**

* Includes: Introduction to Artificial Intelligence (AI), What is Data Science?, The AI Ladder: A Framework for Deploying AI in Your Enterprise

* Occupational Safety and Health Supervisor Diploma – International Association of Safety

* OSHA - International Association of Safety Professionals

Training Courses (Selected)

* Generative AI for Project Managers Specialization - IBM, SkillUp EdTech

* Generative AI: Prompt Engineering Basics – IBM

* Generative AI: Introduction and Applications – IBM

* Generative AI: Unleash Your Project Management Potential

* Data Landscape of Generative AI for Project Managers

* **Python Project for Data Engineering Authorized by IBM, via Coursera (Completed: December 2024)**

* **Python for Data Science, AI & Development Authorized by IBM, via Coursera (Completed: December 2024)**

* Managing Project Risks and Changes

* Active Listening: Enhancing Communication Skills

* The Growth Mindset

* Intercultural Communication and Conflict Resolution

* Learn How to Learn: Powerful Mental Tools to Help You Master Difficult Topics

* Introduction to Generative AI

* Butt Welding - Al-Wassail Industrial Company at NEOM Site

* Electrofusion Welding – Mashaal

* Occupational Safety and Health Supervisor Diploma – IASP

* General Industry Safety - OSHA, IASP

* Non-Destructive Testing (NDT) - Major 5 Methods: Visual, Liquid Penetrant, Magnetic Particle, Ultrasonic, Radiographic

- * IT Essentials – Cisco
 - * Intel Learn Program – Intel
-

Technical Skills

- * **Mechanical Design:** Expertise in designing robust mechanical systems for industrial and residential projects.
 - * **Firefighting Systems:** Skilled in integrating firefighting systems within infrastructure.
 - * **Plumbing and Hydraulic Systems:** Proficient in plumbing networks and hydraulic applications.
 - * **HVAC Systems:** Competent in HVAC design, installation, and maintenance for optimal climate control.
 - * **Health, Safety, and Environment (HSE):** Experienced in creating and enforcing HSE policies for safe work environments.
 - * **Project Management:** PMP® & RMP® certified, proficient in project planning, execution, risk management, and stakeholder communication.
 - * **AI in Project Management:** Applying Generative AI and data analysis for process optimization, decision support, and enhanced project delivery.
 - * **Software & Tools:** Primavera P6, MS Project, AutoCAD, BIM (basic understanding), OpenAI API, Gemini API, Google Workspace (Sheets, Drive, Apps Script).
-

Key Strengths

- * Excellent problem-solving and organizational skills.
 - * Strong leadership and team-building capabilities.
 - * Ability to work under pressure and meet tight deadlines.
 - * Exceptional interpersonal skills, adaptable to diverse work environments.
 - * Commitment to continuous learning and applying innovative technologies like AI.
-

Books and Publications

* **Artificial Intelligence in Project Management** *

This book provides a comprehensive guide on integrating artificial intelligence into project management to improve efficiency and decision-making. It has achieved recognition as one of the Top Sellers in Project Management on Amazon.

Available for purchase on Amazon:

<https://www.amazon.com/dp/B0DKWWB9QV>.

Courses Created

* **Earn Your First 100 Dollars from AI** *

A practical course on Udemy that teaches individuals how to effectively utilize AI applications to generate income, featuring step-by-step guidance and actionable strategies.

Enroll in the course on Udemy: <https://www.udemy.com/course/earn-your-first-100-dollars-from-ai/>.