

Mohammed Abdullah Balfaqih

Mechanical Engineer

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CAREER OBJECTIVE

A recently graduated, bright, ambitious, and result-oriented Mechanical Engineer with practical experience in HVAC system design, mechanical installation supervision, and equipment maintenance. Eager to leverage technical proficiency in SolidWorks, AutoCAD, ANSYS, and MATLAB, alongside strong problem-solving and leadership skills, to contribute to operational excellence and continuous improvement in a challenging engineering role that fosters technological advancement and ongoing professional development.

EDUCATION

- Bachelor of Science in Mechanical Engineering**
Islamic University in Madinah, Madinah September 2020 - December 2025
GPA: 4.78 | **Rank:** 1st in Class of 2025
Senior Design Project: Designed a smart suspension system using smart material for an electric wheelchair to improve comfort for users who suffer from problems in the vertebrae of the back.
Integrated knowledge of fluid mechanics, machine design, and control systems.
Achievement: Earning a place in the Top 5 best Senior Design Projects competition.

SKILLS

- Team Building
- Ability to Multitask
- Public Speaking
- Positive Attitude
- MATLAB
- SolidWorks & Fusion360
- AutoCAD & Revit
- ANSYS

CERTIFICATIONS & COURSES

- Firefighting Systems Design | 18 hours Engosoft September 2025
- HVAC Systems Design | 60 hours Engosoft July 2025
- Fundamentals of HVAC Systems | 1 hour Saudi Council of Engineers May 2025
- Workshop on the Basics of Plastic Tank Production | 2 hours King Khalid University September 2023
- Flow Measurement Technologies in the Process Control Industry | 2 hours Saudi Council of Engineers August 2023
- Introduction to CAD, CAM, and Practical CNC Machining Autodesk August 2023
- Simulink MathWorks July 2023
- FEM - Linear, Nonlinear Analysis & Post-Processing Coursera July 2023

PROFESSIONAL EXPERIENCE

- Mechanical Engineer**– Dar Makkah Engineering Consultants (DMC)
Madinah June 2025 – September 2025
Projects:
 - Court of Appeal – Makkah
 - Designed and planned HVAC systems using VRF technology.
 - Al-Tazaj Fast Food Restaurant – Baha
 - Designed and planned HVAC systems using ducted rooftop packaged units.
 - Prepared detailed shop drawings for system installations using AutoCAD, ensuring compliance with technical specifications and site conditions.
- Site Engineer** – Abdulrazak Hakeem Engineering Consultants
Madinah June 2025 – July 2025
Project: Hotel in Central Area - Madinah
 - Supervising the installation of HVAC, drainage and firefighting systems.
- Site Engineer Intern** – Dr. Ahmed Farid Mustapha Consultants
Madinah December 2024 – January 2025
Project: Arabic Language Institute Project
 - Supervised the installation process of ductwork and HVAC units on-site, Plumbing, and Firefighting systems.
 - Verifying installation work against design drawings and ensuring compliance with project specifications.

■ **Mechanical Maintenance Engineer Intern** – Al-Saad Steel Factory Company

Madinah

June 2024 – August 2024

- Improved understanding of quality control by participating in product inspection and defect identification.
- Supervising the maintenance team in hydraulic systems and cooling equipment.
- Preparing preventive maintenance schedules for equipment and following them up continuously.

RESEARCH EXPERIENCE

■ **Research Assistance**– Islamic University of Madinah

Madinah

May 2025 – December 2025

Worked as a Research Assistant on a project focused on the design and development of a Magnetorheological (MR) Fluid Damper. My role involved designing the system and conducting parameter simulations to determine the optimal configuration that meets the required performance criteria. I also contributed to the research paper preparation by analyzing results, organizing data, and drafting discussions on the design methodology and potential applications of the damp

POSITION OF RESPONSIBILITY

■ **Member of the ASME KKU Club** – King Khaled University

Abha (Online)

August 2024 – December 2024

- Communicate with trainers and look for ways to collaborate to provide educational courses.
- Writing a report on the course outcomes and the most important suggestions from the beneficiaries

LANGUAGES

• **Arabic**

Native

• **English**

Fluent

CV Soft Copy (English)



CV Soft Copy (Arabic)



Certifications

