

Rayyan Abulkhayer

Fresh Graduate Mechanical Engineer

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OBJECTIVE

Highly motivated fresh graduate engineer with hands-on experience in HVAC, plumbing, safety, pumps systems, solar energy solutions, and pumping systems. Skilled in quantity surveying, pricing, project management, and preventive maintenance. Eager to contribute to innovative engineering projects, and deepen my experience in the construction sector.

EDUCATION

B.Sc. of Mechanical Engineering, Umm Al-Qura University [🔗](#) Sep 2019 – Aug 2024
Makkah, Saudi Arabia

- **GPA:** 3.91 out of 4. First Class Honors.
- **Elective Courses:** Pumps and Hydraulics, Refrigeration and Air Conditioning 2, Water Desalination, Solar Energy, Internal Combustion Engines.
- **Extracurricular Activities:** Engineering and Architecture Club (50 hours).

PROFESSIONAL EXPERIENCE

Mechanical Engineer, Thameer Contracting Company Feb 2025 – Present
Riyadh, Saudi Arabia

- Matching engineering AutoCAD drawings for plumbing systems with quantities required.
- Pricing plumbing materials and communicating with suppliers to get best offer.
- Project execution and work supervision to compliance with required standards.

HVAC Engineer Intern, Umm Al-Qura University Jun 2024 – Aug 2024
Makkah, Saudi Arabia

- Gained experience in UPS, HVAC, firefighting, and general MEP systems.
- Delivered presentations to engineers on the VC cycle, AHU, pumps, and valves.
- Troubleshoot 3 issues in air conditioning, achieving successful solutions.

Maintenance Engineer Intern, General Presidency of Al-Masjid al-Haram and the Prophet's Mosque Jun 2023 – Aug 2023
Makkah, Saudi Arabia

- Performed routine preventive maintenance on 48 AHUs and 15 pumps following a checklist.
- Acquired practical knowledge of firefighting and chiller cooling system operations and maintenance.

SKILLS

Soft Skills: Problem Solving, Teamwork, Time Management, Leadership, Effective Communication, Project Planning.

Softwares: Autodesk AutoCAD, Autodesk Inventor, Autodesk Revit, HAP, PVSyst, Microsoft Office, Minitab.

Languages: Arabic (Native), English (Advanced).

GRADUATION PROJECT

Thermal Energy Storage System for Domestic Water Heating Using Solar Energy

- Designed and analyzed PV systems using PVSyst software to generate electricity for thermal storage applications.
- Evaluated storage medium options using a weighted decision matrix, thoroughly assessing their strengths and weaknesses to inform strategic decisions.
- Performed detailed calculations to select the most suitable pump type and model for the domestic water system.

COURSES

Occupational Safety and Health Advanced Course (OSHA), Umm Al-Qura University, 30 hours [🔗](#) Jan 2022

Project Management Course, Udemy, 14.5 hours [🔗](#) Nov 2024

Industrial Quality Control Course, Udemy, 9.5 hours [🔗](#) Sep 2024

Preventive Maintenance Plans Course, Umm Al-Qura University, 6 hours [🔗](#) Mar 2022

Misk Career Skills for Future Path, Misk Foundation, 7 short courses 2 hours each [🔗](#) Apr 2022

LICENSES

Membership, Saudi Council of Engineers (SCE) [🔗](#) Aug 2025

Membership, American Society of Heating, Refrigerating, and Air-Conditioning Engineers (ASHRAE) [🔗](#) Dec 2025

Membership, The American Society of Mechanical Engineers (ASME) [🔗](#) May 2024

AWARDS

Scientific Research Marathon, Prince Khalid Al-Faisal Chair for the Development of Makkah Al-Mukarramah and the Holy Sites [🔗](#)

Academic Excellence Award, Umm Al-Qura University [🔗](#)