

# Hassan Abdullah Alkhalaf

## Senior Building Engineering Student

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### PROFESSIONAL SUMMARY

Highly motivated senior Building Engineering student with a strong passion for designing sustainable and efficient buildings. I am a Revit MEP Certified. Committed to safety in the built environment, Possesses a foundational knowledge of building systems, energy efficient buildings, thermodynamics, and green building principles. Eager to leverage academic knowledge and practical experience to contribute to a sustainable built environment.

### EDUCATION

#### Imam Abdulrahman Bin Faisal University

[Bachelor of Degree in Building Engineering]

DAMMAM, SA

2020-PRESENT

### UNIVERSITY PROJECT

#### Senior Project | Energy Harvesting from Tiles and Elevator – A Case Study of Hotel Building Aug 2024 - PRESENT

- Designed an energy harvesting system from tiles and elevators, ensuring efficient integration into the building.
- Simulated the energy harvesting using MATLAB, reuse the output into lighting, sensors, and essential systems.

#### Graduation Project | Hotel Building

Aug 2024 - PRESENT

- Designed architectural and structural systems, ensuring aesthetics, functionality, stability, and energy efficiency.
- Implemented safety systems per code and conducted a comprehensive cost estimation for the project.

#### High Rise | Office Building

Jan 2024 - May 2024

- Designed and managed high-rise buildings, focusing on functionality, safety, and advanced structural stability.
- Applied the Saudi Energy Code to optimize building systems, ensuring sustainability and energy efficiency.

#### Special Structure | Theatre Building

Aug 2023 - Dec 2023

- Design structural systems for complex designs and manage long-span projects to ensure stability and efficiency.
- Integrated advanced service systems, including HVAC and acoustics, tailored to theater-specific requirements.

#### Dormitory | Student Housing Building

Aug 2022 - Feb 2023

- Applied modular architectural systems to enhance design efficiency and ensure compliance with building codes.
- Assessed construction details, and MEP systems to optimize energy and improve HVAC and lighting efficiency.

### VOLUNTEERING

- Design HVAC system for a Mosque | 15-Hours | May 2024
- Enable the use of the Saudi concrete structures code (SBC-304) | 15-Hours | Dec 2023
- Reduce Electricity Consumption for an Educational Complex | 40-Hours | May 2023

### CERTIFICATE AND COURSES

- Revit MEP Autodesk | 40 Hours | September 2024
- Mechanical Systems Course | 60 Hours | July 2024

### SKILLS

#### Soft:

- Time management.
- Teamwork.
- Creative thinking.
- Communication skills.

#### Technical:

- Autodesk REVIT.
- Design Builder.
- HAP Software
- Duct Sizer and Pipe sizer.

### LANGUAGE

Arabic, English