

# Mostafa El Badawi El Najjar

## MEP Engineer & BIM Specialist

Eng.mostafanajjar@outlook.com | +961 76493457 | Tripoli, Lebanon |  
22/11/2004 | linkedin.com/in/mostafa-najjar

### OBJECTIVE

---

I am a senior Mechanical Engineering student at LAU with hands-on experience in MEP design, Revit, HAP, and HVAC systems through certified training by EEC and AME. Skilled in BIM, sustainable engineering with a focus on optimizing building performance. Knowledgeable in international plumbing codes and ASHRAE standards for HVAC design, ensuring compliance with global engineering practices.

### EDUCATION

---

2022-Present **Lebanese American University**  
*Senior Mechanical Engineering student*

### EXPERIENCE

---

- |                   |  |
|-------------------|--|
| 05/2025 – Present | <b>MEP Designer ( Part-Time )</b><br><i>EEC</i> <ul style="list-style-type: none"><li>• Designed complete HVAC systems (chillers, VRV) using HAP and Revit on large-scale commercial and residential projects.</li><li>• Developed advanced Revit families and mechanical system models up to LOD 450.</li><li>• Participated in design coordination for ducting, chilled water piping, and ventilation layouts.</li></ul> |
| 02/2025 – Present | <b>LawMate Co-Founder</b><br><i>Lebanese American University</i> <ul style="list-style-type: none"><li>• Co-founded LawMate, an AI-powered legal assistant to support research and case management.</li><li>• Led system design and integration in collaboration with the School of Engineering</li></ul>  |
| 12/2024 – 02/2025 | <b>Plumbing Designer Intern</b><br><i>Associated Mechanical Engineers</i> <ul style="list-style-type: none"><li>• Performed complete plumbing system designs for high-rise buildings including water supply, drainage, and vent piping.</li><li>• Sized pumps and storage tanks and designed solar water heating systems.</li><li>• Utilized Revit and AutoCAD and applied IPC &amp; UPC.</li></ul>                        |

### PROJECTS ( CHECK MY PORTFOLIO )

---

#### HVAC Design

Performed detailed cooling load calculations using HAP software for various projects with EEC in Saudi Arabia, including office buildings, villas, and hospitals.

#### LawMate Ai

Co-founded and developed LawMate, a web-based AI platform. Designed to support lawyers in Lebanon by streamlining legal research, automating document analysis, and enhancing access to legal databases.

#### Revit Family Design

Applied Revit Family design in real-time projects involving FCUs, AHUs, hangers, grilles, diffusers, and various HVAC, plumbing, duct, flow, and electrical elements.

Plumbing Design

Conducted pipe sizing and drainage projects at AEE for buildings in Saudi Arabia, including precise pump selection through detailed hydraulic calculations.

Housing System (Texas A&M Competition)

Engineered a sustainable modular housing system from recycled materials for the Texas A&M competition, optimizing cost, durability, and efficiency.

CERTIFICATES

<u>Revit Family Design</u> — Autodesk	<u>HVAC Design</u> — Autodesk
<u>Plumbing Design</u> — AME	<u>Invent for the planet 2025</u> — Texas A&M university
<u>Mastering Solar Energy</u> — Earth Technologies	<u>entrepreneurship skills</u> — Beirut Arab University

SKILLS

Technical skills: BIM, Pipe Sizing, HVAC Design, Plumbing Design

Softwares: Revit, AutoCAD, SolidWorks, HAP, MS Office, LATS-HVAC, MATLAB

Soft-Skills: Team leadership, Project Management, Communication, Problem solving, entrepreneurship, organization

ACTIVITIES

<b>ASHRAE Club, Member</b>	<i>2024 – present</i>	<b>LAU Activities, Events Organizer</b>	<i>2022 – present</i>
<b>Singing, Tutor</b>	<i>2020 – present</i>	<b>LAU Seekers Club, President</b>	<i>2022 – 2025</i>
<b>AEE Club, Member</b>	<i>2023 – 2024</i>	<b>Iman Scout, Scout Leader</b>	<i>2015 – 2022</i>

LANGUAGES

*Arabic (C2) | English (C1) | French (B1)*