

ABBASS DARWISH

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Mechanical Engineer | SolidWorks | HAP | AutoCAD | ANSYS Workbench

◆ **Professional Summary**

Mechanical Engineering graduate with hands-on experience in HVAC design, steel manufacturing, and 3D modeling. Skilled in SolidWorks, AutoCAD, HAP, and ANSYS Workbench with a strong foundation in simulation, design optimization, and field operations. Proven ability to collaborate in cross-functional teams and deliver technical solutions under deadlines.

◆ **Experience**

HVAC Design & Field Intern

MEC (Modern Energy Company), Beirut | Oct 2023 – June 2024

- Designed HVAC and plumbing systems, including HAP reports and water supply layouts.
- Conducted field visits to inspect HVAC sites and ensure installation quality.
- Drafted professional AutoCAD drawings for client deliverables.
- Resolved software issues and assisted design engineers with workflow improvements.

Mechanical Engineering Intern

Association of Energy Engineers, Beirut | Jul 2023 – Sep 2023

- Modeled HVAC load estimations for a residential villa using HAP and ASHRAE standards.
- Selected and sized HVAC systems based on calculated loads.
- Collaborated with intern teams to complete HVAC design projects on time.

Engineering Intern – Steel Fabrication

MOST Group, Beirut | Jun 2023 – Aug 2023

- Operated industrial equipment: shearing, CNC, lathe, and bending machines.
 - Identified and worked with various steel materials and fabrication techniques.
 - Supported quality control and optimized production processes.
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◆ **Education**

M.Sc. in Mechanical Engineering

Lebanese International University, 2023 – 2025 | GPA: 3.3

B.Sc. in Mechanical Engineering

Lebanese International University, 2020 – 2023 | GPA: 3.3

♦ **Projects**

Structural Optimization of a 3D-Printed Prosthetic Leg

- Designed and simulated multiple prosthetic models under variable stress/load conditions.
- Used **ANSYS Workbench** for FEM analysis and **SolidWorks** for CAD modeling.

V6 Twin Turbo Engine – 3D Model (SolidWorks)

- Created full assembly and animations using advanced mating and linking features.
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♦ **Skills**

- **CAD Tools:** SolidWorks, AutoCAD
- **Simulation:** ANSYS Workbench, LT-Spice
- **Software:** HAP, Microsoft Office
- **Programming Languages:** Java, MATLAB
- **Soft Skills:** Problem Solving, Project Management, Teamwork
- **Languages:** English (Fluent), Arabic (Native)