

Khaled Hallak



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As a dedicated and ambitious student pursuing a Bachelor of Engineering in Mechanical Engineering, I am actively seeking an internship opportunity to gain practical experience and further develop my skills in the field. With a passion for innovation and a strong academic foundation, I am eager to contribute to a dynamic organization where I can apply my knowledge and learn from experienced professionals.

Education

Bachelor of Engineering in Mechanical Engineering (2020-present)

Rafik Hariri University • Damour, Lebanon • Expected Graduation: Summer 2024

Experience

Beirut Pilotage Station

Marine Vessels Maintenance Intern (2023-present)

- Maintenance and repair of tugs and mooring boats
- On-site inspection and troubleshooting

Ecolift

CAD Engineer (Part-time, 2023-present)

- Creating AutoCAD plans for lift assembly
- Continuous site visits to ensure proper implementation
- Providing drafts to steel fabricators

Instant Engineer

Founder/Marketer (2023-present)

- Founder of a project dedicated to helping students learn engineering skills in an easy and direct manner.
- My role involves teaching the students and marketing our programs.
- Launched the first mechanical and electrical engineering program on February 3, 2023.

Lebanese Spotlight

Proposals Writer (2023-present)

- Joined Lebanese Spotlight NGO in 2020 to support community service efforts.
- Demonstrated leadership and ambition by announcing candidacy for the managerial committee in 2021 and securing the Manager of Information Technology and Proposal Writing position.
- Currently responsible for overseeing LSL's website, blogger, and communication domains, and writing proposals to secure project donations.
- Proven ability to multitask and handle diverse responsibilities, including managing the organization's technology, communications, and fundraising.
- Served as a beneficiary of Sustain the World x LSL's employment project in 2021, demonstrating a commitment to both personal and community growth

Notable Coursework

Pressure Vessels and Piping Design

Outcomes:

- ANSYS Mechanical

- BPVC ASME Section VIII Division 1
- Fundamentals of BPVC ASME Section VIII Division 2

Numerical Analysis

- Numerical analysis techniques
- MATLAB

Mechanical Design

- Deflection calculations using singularity and superposition methods
- Failure theories for static and fatigue loading
- Finite element analysis for stress analysis (ANSYS)
- Analysis of stresses on welds (UW), ball and roller bearings (SKF/TIMKEN), bolts and power screws, and journal bearings

Notable Projects

- Hand-Operated Mechanical Elevator for Paraplegics
- PMI Prediction Test Rig
- Fin design tool using MATLAB

Skills Summary

ANSYS Mechanical- MATLAB-C++- AutoCAD- ASME Section VIII Division 1- Mechanical Design (testing, selection, stress analysis)-Material Science

Languages:

- Arabic: Native
- English: Fluent

References

Available upon request