

Malek Chehab

+961 76631481/+974 33933928

malekischehab@gmail.com

Summary

A highly motivated Mechanical Engineering student with a thirst for a challenging experience in innovative projects to exercise my potential and skills. Looking forward to working with a team who can assist in improving my skills, introduce me to different aspects of life and guide my path to progression.

Experience

Midmac Contracting Company W.L.L.

Lusail, Qatar

Mechanical Engineer Intern at Lusail Plaza Towers A&B

June-July 2023

Involved in the supervision of installation of MEP systems. Participated in various mechanical and electrical material arrival examination. The internship included inspection of already installed systems such as ducting, welding and plumbing. I was also responsible for preparing daily reports about the progress of the installation of MEP systems. I took part in preparing invoice contracts for material delivery.

Dar Al Handasah Consultants W.L.L.

Doha, Qatar

Mechanical Engineer Intern at Rixos Gulf Hotel

August 2022

Involved in the supervision of several mechanical installations including drainage, plumbing, firefighting, and irrigation systems. The internship included technical review of shop drawings, project specifications, and material submittals for the various systems mentioned above.

Personal Projects

- **River Cleaning Machine:**

This machine consists of 3D-designed and printed models of a turbine gear, two bevel gears, and a slider-crank 4-bar mechanism. The water current rotates the turbine gear which simultaneously allows the connected bevel gears to rotate. The slider connected to the bevel gears moves across the width of the river. This allows the collection of the trash and separation into garbage disposals.

- **A Rack and pinion car steering mechanism:**

The first step in designing this mechanism and assuring its safety is by choosing the appropriate materials and dimensions for each component. A 3D model of the mechanism was completed using Inventor software where force and stress analyses were conducted. Also, both static and fatigue failure were checked on all components as well as the welds to ensure the safety of the mechanism.

- **A Rotary Phone Stand:**

This design was done in order to improve a product which is already found in the market. The components of this design are: Wooden base covered with carbon fiber, 3d printed shaft and phone holder, and a hollow plexiglass tube. The shaft will be placed inside the plexiglass tube which will be fixed in the wooden base. This will allow the phone stand to rotate a 360-degree angle. This design was created to be more efficient in terms of cost and function relative to other phone stands.

Education

American University of Beirut - AUB

Beirut, Lebanon

Mechanical Engineering BE

2020-2024

- GPA: 3.44

- Spring 2023 Dean's Honors List

Hariri High School II

Beirut, Lebanon

Lebanese Baccalaureate General Sciences Track

2005-2020

Extracurricular Activities

- Financial Intelligence Club Member at AUB: Involved in social media, marketing, and public relations
- Helped in organizing events for Lebanese Heritage Club

Skills

- **Computer Aided Design Software:** Inventor, Creo Parametric, AutoCAD
- **Programming:** Python, MATLAB, Multisim, Simulink, myDaq, LabVIEW
- **Communication:** Teamwork, Leading and managing teams, meeting tasks and project deadlines.
- **Language:** Native language skills in Arabic and English