

Experience and driven mechanical engineer. Seeking expertise in robotics, innovative thinking, and hands-on experience to contribute to groundbreaking R&D initiatives especially in automotive and aerospace robotics industry.

➤ **EDUCATION:**

**BE, Mechanical Engineering, American University of Beirut (AUB) GPA: 3.77/4**

Sep. 20 – Present

Completed academics projects including:

- ❖ Design and linear control of UAV
- ❖ Wireless medical watch, designing, coding and manufacturing.
- ❖ Dog Robot automation using QR codes and ROS system.
- ❖ Linearization and Control of Rotary Inverted Pendulum Model.
- ❖ Kinetics, fatigue, and finite element analysis of an adjustable Solar Panel Holder.
- ❖ Kinetics and kinematics analysis and simulation of a Four Bar linkage.
- ❖ Cartman Boat manufacturing, simulation and steering.

➤ **EXPERIENCE:**

✦ **Curriculum Developer at Global Education**

June 24-Aug 24

- ❖ Experimented with variety of Dobot Educational Robots.
- ❖ Tested several software for Dobot.
- ❖ Developed 12 Robotics experiments for elementary and secondary schools.
- ❖ Conducted training sessions for ICT teachers on robots and robotics concepts.

✦ **Research Assistant at AUB**

❖ **Kubits under the supervision of Prof. Hussien Hussien:**

Oct 22-Present

- Developed a unique geared Mechanical design of the Kubit.
- Tested several gears designs using ferromagnetic PLA and SLA filaments.
- Built and experimented with high-voltage high-current DC pulse circuits.

❖ **Vertical ventilation under the supervision of Prof. Issam Lakkis:**

Jan 23-Aug 23

- Researched Solar radiation models on Ansys Fluent.
- Optimized the model meshing process.
- Presented the simulation findings for further research.

❖ **Recycling of PLA waste under the supervision of Prof. Mohammed Harb:**

Oct 22-Dec 23

- Prepared the literature review.
- Developed and optimized the crushing /extruding new filaments from FDM PLA waste.
- Evaluated the material mechanical, physical and chemical properties.

✦ **Laboratory Staff assistant at AUB**

Oct 22-Dec 22

- Managed the software licenses and activity in the laboratories.
- Assisted in on-the-spot tasks including analyzing hardware of computer for repairmen.
- Assisted students in solving technical problems during experiments.

➤ **AWARDS AND CERTIFICATES:**

✦ Landed a full scholarship by USAID

Sept 2020-Present

✦ Placed on the Dean's honor list for Fall 2021 and Fall 2022

Dec 21-Present

✦ Guaranteed the Qatar Education Above All (EAA) Scholarship

Sept 2022-Present

✦ Member of the Year with AllGirlsCode

Jan 2024

✦ Youth Leadership Program 9<sup>th</sup> cohort Alumnae

Aug 23-Dec23

✦ Accomplished United People Global (UPG) sustainability Leadership program

Mar 22- July 2022

✦ Became a Cross-Roads Emerging Leaders' Program (CELP)Alumnae

Feb 21-Aug 2021

➤ **COMMUNITY SERVICE:**

- ✦ Art Community Service Project to Improve mental health of Drop out children.
- ✦ Planned and implemented 3 days event as a Director of logistics at AllGirlsCode.
- ✦ Mentored over 200 high school girls into STEM.
- ✦ Mentorship team leader at AllGirlsCode.
- ✦ Tutored variety of students over the span of two years English, math and physics.

➤ **SKILLS**

- |                                    |                   |
|------------------------------------|-------------------|
| ✦ Analytical and Critical Thinking | ✦ Commitment      |
| ✦ Adaptability                     | ✦ problem solving |
| ✦ Determination                    | ✦ creativity      |

➤ **COMPUTER LITERACY**

- |   |                  |
|---|------------------|
| ✦ Microsoft Office Suite (Intermediate) | ✦ Python         |
| ✦ MATLAB (Intermediate)                 | ✦ AutoCAD        |
| ✦ Creo                                  | ✦ Inventor       |
| ✦ SIMULINK                              | ✦ LABVIEW        |
| ✦ LINUX ROS2                            | ✦ ARDUINO        |
| ✦ Blynk                                 | ✦ Overleaf LaTeX |
| ✦ ANSYS FLUENT                          | ✦ SOLIDWORKS     |
| ✦ Modelio                               |                  |

➤ **LANGUAGES**

- ✦ English: Advanced
- ✦ Arabic: Native