

CAREER OBJECTIVE

Enthusiastic Mechatronics Engineering student, actively seeking an internship opportunity within the field. The goal is to leverage a dynamic learning environment to acquire new skills, enhance career prospects, and make a positive impact on the organization while striving for continuous personal and professional development.

EDUCATION

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| Lebanese American University (LAU), <i>Bachelor’s in Mechatronics Engineering</i> <ul style="list-style-type: none"><i>Placed on the Dean’s Honor List for Spring 2023</i> | Sep 2020 – Jun 2025 Aug 2023 |
| Saint Joseph School, <i>General Science Program</i> | Sep 2019 – Jun 2020 |

PROJECTS

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| Self-balancing Robot, <i>Leader</i> LAU | Nov 2022 – Dec 2022 |
| <ul style="list-style-type: none">Built a Self-Balancing Robot capable of effectively maintaining its balanceOptimized the configurations of sensors and actuators to enhance the stability of the robotImproved the level of control and responsiveness | |
| Tomato Gripper, <i>Member</i> LAU | Nov 2023 – Dec 2023 |
| <ul style="list-style-type: none">Developed a precise control system tailored to meet specific project requirements.Conducted system modeling through an extensive review of literature and products, focusing on the force controller.Designed two compensators, a Lead compensator and a PID, employing MATLAB and Simulink.Analyzed the variation of the control input to ensure the stability and efficiency of the tomato gripping mechanism.Identified the specific input force required for sorting tomatoes based on their freshness and softness, thereby augmenting the overall functionality of the gripper system | |
| Mars Rover Design, <i>Member</i> LAU | Nov 2022 – Dec 2022 |
| <ul style="list-style-type: none">Engineered a Mars Robot considering the gravity conditions on Mars using SolidWorksConducted motion and stress simulationsVerified the robot's capability to operate effectively in the challenging Martian environment | |
| Home Automation, <i>Member</i> LAU | Nov 2022 – Dec 2022 |
| <ul style="list-style-type: none">Integrated a Home Automation project, powered by LabVIEW and MyRIODeveloped the following systems: temperature control, fire detection, garage door operation, and lighting controlPrioritized safety and efficiency as primary objectives | |
| Shredder Machine, <i>Member</i> LAU | Nov 2023 – Dec 2023 |
| <ul style="list-style-type: none">Formulated and designed a shredder machine, employing industry design factors in SolidWorks, and executed stress analysis to validate structural integrityEngineered critical components such as the shaft, gears, bearings, bolts, and screws, utilizing a meticulous design approach | |

SKILLS

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| <ul style="list-style-type: none">Languages:<ul style="list-style-type: none">EnglishFrenchArabic | |
| <ul style="list-style-type: none">Technical Skills:<ul style="list-style-type: none">JavaData StructuresPython-OpenCVNI LabView + MyRIOInstrumentationMATLAB/SimulinkSolidWorksAutoCADG-CodeKinematics of LinkagesAltera Quartus 2 SimulatorP-spice SimulatorOffice Package (Word, Excel, PowerPoint, Web)Primavera | <ul style="list-style-type: none">Soft Skills:<ul style="list-style-type: none">Problem solvingLeadershipCommunicationAdaptabilityCreativity |

MEMBERSHIPS

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| Active member in the LebNet Tech Fellows Program | Jan 2024 – Jun 2024 |
| Active member in the LAU Robotics Club | Sep 2022 – Sep 2023 |
| Active member in the LAU Consulting Club | Sep 2022 – Sep 2023 |

CERTIFICATES

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| Certified SolidWorks Professional (CSWP) | 10 Jan 2024 |
| Certified SolidWorks Associate (CSWA) | 29 Oct 2022 |
| Completed the Aerial Robotics Course (<i>Authorized by University of Pennsylvania and offered through Coursera</i>) | 13 Jan 2024 |
| NVIDIA DLI Certificate (Completion of Getting Started with AI on Jetson Nano) | 30 Aug 2023 |