

# Moustafa Hammoud

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## EDUCATION

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<b>Lebanese American University, B.E. Electrical Engineering</b>	<b>Sept 2022-2026</b>
-B.E. in Electrical Engineering, GPA: 3.65, placed on the Dean's distinction list	
-Awarded the full ride <b>HES-USP scholarship</b>	

## EXPERIENCE

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<b>Born Global Foundation, Intern, Remote</b>	<b>June 2023 - Aug. 2023</b>
	<b>June 2020 - Aug. 2020</b>
<ul style="list-style-type: none"><li>- Researched Reverse Osmosis and membrane manufacturing and enrolled in a Systems Thinking course by physicist Fritjof Capra to explore innovative problem-solving approaches.</li><li>- Worked on designing a blueprint for a school garden to hold interactive events with attendants through an interactive application and games.</li></ul>	
<b>Lebanese American University, Electricity and Magnetism tutor, Byblos, Lebanon</b>	<b>Feb. 2023 - May 2023</b>
<ul style="list-style-type: none"><li>- Taught students concepts (Electric and magnetic fields, gaussian surfaces, ampere's law, capacitance, resistance, circuits etc...) along with solving exercises of different difficulty levels.</li></ul>	

## PROJECTS

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<b>Vertically Integrated Project – LAU&amp; Pharmaline (MALIA group)</b>	<b>Jan. 2025-present</b>
<ul style="list-style-type: none"><li>- Built an external device to help with the Overall Equipment Efficiency analysis and optimize production.</li></ul>	
<b>Simulation of Electronic Circuits</b>	<b>Sep. 2024-Dec. 2024</b>
<ul style="list-style-type: none"><li>- Developed MATLAB codes for MNA stamps and algorithms to handle transient, steady-state, and sensitivity analysis in linear and nonlinear circuits.</li></ul>	
<b>Car Transmission</b>	<b>May 2024</b>
<ul style="list-style-type: none"><li>- Designed a car gear using logical gates and simulation to perform different tasks based on the mode provided and gas/brake inputs.</li><li>- Software used: Quartus, Proteus</li></ul>	
<b>Sensor based fire alarm</b>	<b>Apr. 2024</b>
<ul style="list-style-type: none"><li>- Created a fire alarm using smoke and heat sensors for the electronics lab course.</li><li>- Software used: Pspice</li></ul>	
<b>Rotating solar panel – Engineering Design Competition</b>	<b>Apr. 2023</b>
<ul style="list-style-type: none"><li>- Designed a rotating solar panel using Arduino and LDR sensors to track light and increase the panel's efficiency. (Second place)</li></ul>	

## ACHIEVEMENTS AND ACTIVITIES

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Model Arab League (MAL) trainer – LAU Simulation Models	<b>Jan. 2025-Present</b>
IEEE MENACOM organizer, IEEE & LAU	<b>Feb. 2025</b>
IEEE Power and Energy club Junior Representative	<b>Sept. 2024-Present</b>
Astronomy Club Secretary	<b>Sept. 2024-Present</b>
IEEE SYPLC ambassador representing LAU	<b>June 2024</b>
First National Microelectronics Olympiad- Participant, LAU and Silicon Cedars	<b>May 2024</b>
Disaster assistance and response engineering - participant, LAU-robotics club	<b>Apr. 2024</b>
Millennium Fellow, Millennium Fellowship (UN affiliated)	<b>Dec. 2023</b>
Diplomacy Award, GCLAU MUN	<b>Feb. 2020</b>

## TECHNICAL SKILLS

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**Software:** Quartus II, Proteus, MATLAB, AutoCAD, Simulink, Pspice, Java, Arduino, Assembly (Easy68K)