

Robin Sarhane

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Ambitious Mechatronics Engineering student at LAU, passionate about robotics, automation, and innovative engineering solutions with proven academic excellence, hands-on project experience, and leadership in technical and volunteering environments.

EDUCATION

BE in Mechatronics Engineering 2023 - Present	Lebanese Baccaureate - Life Sciences 2023
<ul style="list-style-type: none">Lebanese American University (LAU) - ByblosCumulative GPA: 4.0Dean's Distinguished List for 4 semestersMemberships: IEEE, IFAC, IEEE Robotics Club	<ul style="list-style-type: none">Collège des Apôtres - JouniehGeneral Average: 18.24/20Honors: High DistinctionLAU Model United Nations - Delegate 2021

ACADEMIC PROJECTS

SolidWorks Tractor Model Fall 2025	Hand-Controlled Rover Spring 2025
Designed and analyzed a 3D tractor model (motion, stress, flow, and sustainability) with renders and animations.	Built a wireless rover controlled via real-time hand gestures using sensors, actuators, and microcontrollers.
Furuta Pendulum Control Fall 2025	Course Scheduling Website Spring 2025
Implemented PID, LQR, and Fuzzy Logic controllers with swing-up functionality for an inverted pendulum.	Developed a full-stack web application generating conflict-free schedules using JavaScript, HTML/CSS, and SQL.
Autonomous Cup Guessing Game Fall 2025	Magic Switch Box Spring 2025
Designed an automated system ensuring fairness, repeatability, and engaging gameplay.	Implemented a combinational logic circuit using discrete gates to control LED sequences.

EXPERIENCE

Undergraduate Research - Brain-Computer Interfaces 2025 - Present
<ul style="list-style-type: none">Working on "A Multimodal Hybrid BCI for Embodied Control of a Virtual Avatar Arm Using Motor Imagery, SSVEP, and Eye Tracking"
Tutor for Mathematics and English Summer 2025
<ul style="list-style-type: none">Supported Grade 6 - 12 students with coursework and exam preparation through adaptive teaching methods.
Tutor for Engineering Courses 2024 - 2025
<ul style="list-style-type: none">Delivered one-on-one and group tutoring in calculus, probability, and statistics.Tracked student progress and created tailored study plans.
Waiter Summer 2023
<ul style="list-style-type: none">Managed up to 10 tables per shift, ensured service quality, and handled payments accurately.

VOLUNTEERING SERVICES

Lebanese Red Cross - Youth Sector
Center Vice President 2025
<ul style="list-style-type: none">Supported operational management, supervised committees, and handled logistics and inventory.
Center Treasurer 2024
<ul style="list-style-type: none">Managed budgeting, financial records, and reporting with transparency.
Member 2022 - Present
<ul style="list-style-type: none">Co-developed a Study Technique Guide used in 25 youth-led activities nationwide.Facilitated training sessions on psychosocial support and stress management.
Member & Chief - Lebanese Scout 2013 - 2022
<ul style="list-style-type: none">Led youth teams, organized camps and events, and developed a digital fundraising system.

SKILLS & LANGUAGES & CERTIFICATIONS

- Programming:** Java, Python, Linux, Machine Learning, Deep Learning, JavaScript, HTML, CSS, PostgreSQL, C++, Assembly, Computer Vision
- Controllers:** Control Systems, PID, LQR, Fuzzy Logic, Raspberry Pi, Arduino, PLC, NI myRIO
- Engineering Tools:** SolidWorks, AutoCAD, MATLAB, Simulink, LabView, PSpice
- Core Competencies:** Problem Solving, Leadership, Communication, Project Management, Critical Thinking
- Languages:** English (C2), French (C1), Arabic (C1)
- Certifications & Awards:** Certified SolidWorks Associate (CSWA), Top 5 Projects at LAU Engineering Projects Day