Lilas Tawil

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Education

Lebanese American University (LAU)   **Lebanon,**2027
  Bachelor of Engineering in Mechatronics Engineering

Taalabaya Official High School | Lebanese Baccalaureate in Life Sciences   **Lebanon,** 2022

Experience

Technology and Innovation Assistant - *Lebanese American University (Part Time)*   ***Aug 2025-Present***
- Developed AI-powered tools and machine learning models to support academic initiatives
- Applied intelligent systems and machine learning concepts to develop practical solutions

IT Assistant - *Lebanese American University (Part Time)*   ***Jan 2024 – Aug 2025***
- Maintained 30+ PCs and 10 printers, reducing technical downtime by 40% for library operations
- Assisted 50+ students weekly, elevating their library experience and productivity

Development Intern – *Coding and Create (One Month)*   **July 2025**
- Developed cross-platform mobile applications using Flutter and Dart
- Built responsive UI components and implemented application navigation
- Participated in testing and debugging application features

Mechanical Engineering Intern – *Berdawni (One Month)*   **August 2025**
- Performed preventive maintenance inspections, designed models inn AutoCAD and SolidWorks

Projects

Posture Detection System | Python, OpenCV, MediaPipe   **2025**
- Developed a posture detection tool in Python using MediaPipe Pose + OpenCV.

Bookstore Web Application – Data Structures (PHP, HTML, CSS, JavaScript, MySQL)
Developed a dynamic bookstore web application using PHP, HTML, CSS, and JavaScript.
- Designed and integrated a MySQL database to manage books, users, and inventory

Interactive 360° VR Library Tour – (A-Frame, JavaScript)
- Built a web-based VR experience using A-Frame and 360° images
- Implemented interactive navigation and user-triggered events

Mobile Application – Flutter Internship Project *(Flutter, Dart)*
- Developed a cross-platform mobile app with responsive UI and navigation using Flutter and Dart

Intelligent Wheelchair Prototype- *Mechatronics Engineering Design*
- Developed a smart wheelchair prototype with obstacle avoidance and smartphone control

Automated Waste-Sorting Conveyor System – *Mechanical Design Project*
- Designed an automated waste-sorting conveyor system in SolidWorks

Color-Sorting Robotic Arm – *Instrumentation Project, LAU*
- Developed a robotic arm using Arduino and sensors for color-based sorting

Mechanical Rolling Machine Simulation – *CAD Project, LAU*   **2024**
- Designed and simulated a rolling machine in SolidWorks

Skills & Expertise

- **Programming & Software:** JavaScript, Python, Java, HTML5, CSS, MySQL, Flutter & Dart
- **Tools & Technologies**: Git & GitHub, Arduino, Raspberry Pi
- **CAD & Technical Design:** AutoCAD, SolidWorks (2D/3D modeling)
- **Languages:** Arabic (Native), English (Proficient), French (Intermediate) | **IEEE Member**

Certificates & Courses

- Supervised Machine Learning: Regression and Classification - Coursera
- AutoCAD 3D Modeling- LinkedIn Learning (March 2025)
- Training of Trainers (TOT)-STEAM - Michel Daher Foundation (September 2024)