

Assil Sabbagh

Computer Engineering Student

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SUMMARY

Computer Engineering student at Beirut Arab University (September 2023 – Expected June 2027) with hands-on academic project experience. Interested in web development and hardware systems, currently strengthening programming skills through daily coding practice, a full-stack development course, and ongoing web application and website projects.

EDUCATION

Beirut Arab University (BAU), Lebanon

September 2023 – Expected June 2027

Bachelor of Computer Engineering, (GPA: 3.73/4)

PROJECTS

Smart Glasses for the Visually Impaired

University Project | Beirut Arab University

- Designed and developed a wearable assistive system using Raspberry Pi, camera modules, and embedded hardware to support visually impaired users.
- Implemented real-time object detection using YOLO to identify surrounding obstacles and important objects.
- Integrated a GPS module for location tracking and navigation support, and performed system testing and debugging to improve reliability.

Student Expense Tracker – Python GUI Application

University Project

- Developed a Python-based GUI application to help students track and manage weekly expenses.
- Implemented categorized expense tracking with visual analysis using bar and pie charts, along with spending alerts.

Temperature Monitoring System for Pastry Fridge

University Project

- Developed a temperature monitoring system using a PIC microcontroller with LCD display and buzzer alerts for abnormal conditions.
- Simulated real-world refrigeration control where maintaining stable temperature is critical for product quality.

SKILLS

Programming & Development: Python, C, C++, OOP, Java, Assembly (MPLAB), HTML, CSS

Embedded Systems & Hardware: Raspberry Pi, PIC Microcontrollers, ESP32, Arduino, LCD Interfacing, Camera Modules

Software & Tools: PyCharm, Visual Studio Code, Jupyter Notebook, MATLAB, MPLAB, LabVIEW

Documentation & Productivity: Microsoft PowerPoint, Microsoft Word, Canva, Basic Excel

Soft Skills: Problem Solving, Teamwork, Communication, Adaptability, Time Management, Attention to Detail, Project Ownership

LANGUAGES

Arabic (Native), English (Fluent), Turkish (Basic)