Tala Chehade

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Objective

Third Year Computer Engineering student with strong software and hardware skills. Seeking a Summer internship to apply technical expertise in real-world engineering applications.

Education

BACHELOR OF SCIENCE IN COMPUTER ENGINEERING| 2022-CURRENT (EXPECTED YEAR OF GRADUATION 2026) | UNIVERSITY OF BALAMAND

DEAN'S HONOR LIST: FALL 2022-2023, SPRING 2022-2023, FALL 2023-2024, SPRING 2023-2024, FALL 2024-2025.
GPA: 90.68/100

LEBANESE BACCALAUREATE IN GENERAL SCIENCE | JUNE 2022 | RAWDAT AL FAYHAA SECONDARY SCHOOL

Projects

FINAL YEAR PROJECT: SMART GLASSES FOR DEMENTIA PATIENTS AND ELDERLY

- Developed smart glasses using Raspberry Pi and multiple sensors for face recognition, object detection, fall monitoring, and location tracking.
- Guided patients using auditory navigation in case lost and provided medication reminders.
- Implemented a mobile application for caregivers to track patient activities, receive alerts, and manage reminders.
- Established IoT connectivity via ThingSpeak to transmit alerts from the smart glasses to the mobile application.

RISC-V PROCESSOR DESIGN WITH PIPELINING

- Designed and simulated a RISC-V processor on an FPGA using Quartus, implementing a five-stage pipelining architecture to enhance performance.
- Optimized instruction execution by reducing pipeline stalls and improving data hazard handling.

AUTONOMOUS LINE-FOLLOWING CAR USING PIC18F45K22

- Designed and programmed an advanced line-following robot, seamlessly integrating both software and hardware to adjust motor controls for precise path navigation.

Skills & Abilities

- Java, Python, C++, Assembly, C, SQL , OOP
- OpenCV, scikit-learn, YOLOv8
- MATLAB, Ladder, Data Structure, Ubuntu
- App Development, System Verilog

- Arabic
- English
- French

Extracurricular Activities

- IEEE club member (2023-current)
- Model Arab League certificate (2nd place): Debate competition at LAU
- DELF B2