

Azmi-Salah Bousedra

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EDUCATION

Concordia University <i>Bachelor of Software Engineering (BEng)</i>	Montreal, QC Sept. 2024 – May 2028
Champlain College <i>Health Science Collegial Diploma (DEC)</i>	Saint-Lambert, QC Aug. 2021 – Apr. 2023

EXPERIENCE

Firmware R&D Intern <i>PixMob</i>	Sep. 2025 – Dec. 2025 Montreal, QC
<ul style="list-style-type: none">Designed and deployed a complete CI pipeline that compiles, documents, validates, and flashes firmware automatically to the correct target device, ensuring production-grade traceability and efficiency.Created a unified test automation framework (C++, Shell, Python) by coding a custom firmware running unit tests with a UART trace parser and XML report generator, integrating test results seamlessly into CI for real-time validation.Engineered a fully automated multi-device firmware flashing system using a 16-channel relay board, a microcontroller, and custom embedded firmware to control SWM, power, and ID lines, enabling parallel programming and reliable device handling.	

PROJECTS

Comments4Me <i>JavaScript, Node.js, Express, Prism.js Gemini, Git</i>	Feb. 2025 – May 2025
<ul style="list-style-type: none">Built an AI-powered web app that analyzes and automatically comments source code using the Gemini API, improving documentation, code sharing and developer efficiency.Implemented Prism.js for syntax highlighting and code block styling, delivering a polished developer-friendly UI.Integrated front-end and back-end seamlessly to support real-time code parsing, user interaction, and comment visualization.	
TuneWear <i>C++, Git</i>	
• Designed and built a compact ESP32-powered wearable clip that displays the currently playing track in real time from any streaming service, attachable to instruments like guitars or pianos for live play-along sessions.	Jul. 2025 – Sep. 2025
• Built a customizable Blynk mobile dashboard that lets users configure TuneWear's visual style, adjust display modes, and monitor real time device status through WiFi based API communication.	
• Designed the full physical assembly by selecting an ESP32 T5 board, integrating a LiPo battery, and adapting a 3D printed case to achieve a compact, reliable wearable without requiring a custom PCB.	

TECHNICAL SKILLS

Languages: C, C++, Python, Java, JavaScript, HTML/CSS, Bash

Frameworks, APIs & Libraries: Node.js, Express, React, Gemini API, Prism.js, GSAP

Developer Tools: Git, Docker, Visual Studio Code, JetBrains IDEs, Linux

INTERESTS

Soccer, Video Editing, Basketball, Cinema