

ALADDIN JAMLI

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EMBEDDED SOFTWARE ENGINEER STUDENT

Passionate Embedded Software Engineer with a curious mindset and strong drive to learn. Skilled in designing, testing, and refining reliable, user-friendly applications. Thrives in team environments, solving complex problems, and delivering innovative solutions. Excited by new challenges and contributing to impactful projects.

EDUCATION

Private Higher School of Engineering and Technology – ESPRIT

Embedded Software Engineering

September 2023 – Present

- **Coursework:** Java, Linux, CCNA networking, web/mobile development, Spring Boot, .NET, machine learning, Docker, UML, OOP, advanced operating systems, database administration, project management.
- **Embedded focus:** ESP32, STM32, BeagleBone, communication protocols, sensor networks, IoT.
- **Specialization:** Ambient and Mobile Embedded Systems and Software.

Higher Institute of Information and Communication Technologies – ISTIC

National Diploma – Electronics, Electrotechnology, and Machinery

September 2020 – June 2023

- **Coursework:** Mathematics, physics, electronics, thermodynamics, automation, hardware architecture, power electronics, robotics, Linux, HTML/CSS, database management, OOP (C++).
- **Specialized training:** PLC, VHDL, FPGA design, electrical schematics, PCB design.

WORK EXPERIENCE

Bionic Soul Startup | Internship

Mobile Application Development

June 2025 – September 2025

- Continued development of the mobile application started in the academic project.
- Added new functionalities, customization options, and optimized existing code.
- Integrated the leg module with the arm module for a complete prosthetic management solution.

Bionic Soul Startup | Academic Project

AI-Controlled Bionic Leg

January 2025 – June 2025

- Designed a bionic leg system to collect and analyze motion data using ESP32 and Raspberry Pi 4.
- Developed AI models to control leg movements.
- Created a Flutter mobile app for real-time monitoring and a full-stack Angular/Spring Boot web application for a startup marketplace.

COFITEL | End of Studies Project

Microcontroller-based Cable Testing System

February 2023 – May 2023

- Developed a cable testing system using PIC16F877A and PIC32MZ2048ECH-144 for 4–50 wire cables.
- Displayed results on a web page (HTML/CSS/PHP) and a built-in LCD screen.
- Designed and fabricated a custom power alimentation board for reliable operation.

PROJECTS

Web and Java Project – Physical Health

January 2024 – June 2024

- Developed a full-stack Web/Java application for tracking lifestyle, food intake, routines, and training programs.
- **Technologies:** Java, Symfony, PHP, HTML, CSS.
- **Skills:** Full-stack development, database management, system integration.

CupCarbon Project – Smart Retail Management System

November 2024 – December 2024

- Designed a system for client count, temperature control, and stock monitoring.
- Connected main base station output to ESP32 using MQTT protocol.
- **Technologies:** CupCarbon5, CupCarbon6.
- **Skills:** C programming, Python, MQTT communication.

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PROJECTS

Robotics – Remote Control Robot

March 2025

- Designed and assembled a delivery robot with custom 2G controller and mobile app for FPV navigation.
- Integrated ESP32, ESP32-CAM, servo motors, MPU6050, L298N driver, and base robot platform.
- **Skills:** C programming, robotics integration, embedded systems.

Web Project – Factory Management System

May 2025

- Developed a full-stack website to manage users, production lines, and products.
- Implemented Spring Security authentication, role-based access, activity logging, and CSV reports.
- **Technologies:** Spring Boot, Angular.
- **Skills:** Full-stack web development, backend integration, frontend design, secure applications, data reporting.

SKILLS

Technical Skills

- **Programming languages:** C, C++, C#, Python, Java, dart, PHP, JavaFX.
- **Web & Mobile Frameworks:** Spring Boot, Angular, .NET Framework, Flutter Flow, Symfony.
- **IoT Platforms:** Blynk, Node-red.
- **Tools:** Arduino IDE, Visual Studio Code, IntelliJ IDEA, Android Studio, Git/GitHub, Proteus.
- **Communication protocols:** BLE, MQTT, I2C, SPI, UART, MQTT, ESP-NOW.
- **Microcontrollers:** ESP32, Arduino, Raspberry Pi, STM32.
- **Databases:** Firebase, SQL, Oracle, MySQL.

Soft Skills

- **Competitive** mindset with a drive to excel and stand out.
- Strong sense of **responsibility** and **ownership**.
- Proven **team leader** with group **management experience**.
- Effective **communicator** in collaborative and technical settings.
- **Fast learner**, adapts quickly to new challenges.
- **Proactive, goal-oriented**, and **results-driven**.

CERTIFICATES

- C language for embedded systems
- Architecture and programming of STM32 Microcontrollers
- Object-oriented programming (C++) and QT based HMI for embedded systems
- Embedded Linux Userspace
- POSIX Programming
- Embedded Linux KernelSpace and IoT
- CCNA: Switching, Routing, and Wireless Essentials