ALADDIN JAMLI

EMBEDDED SOFTWARE ENGINEER STUDENT

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PROFILE SUMMARY

Passionate student 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 | Tunisia

2023 - PRESENT

Engineer's Degree – Embedded, Ambient & Mobile Software Systems

Higher Institute of Information and Communication Technologies – ISTIC | Tunisia

SEPTEMBER 2020 – JUNE 2023

National Diploma – Electronics, Electrotechnology, and Machinery

WORK EXPERIENCE

Bionic Soul Startup | Internship   JUNE 2025 – SEPTEMBER 2025
Mobile Application Development

- 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   JANUARY 2025 – JUNE 2025
AI-Controlled Bionic Leg

- 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   FEBRUARY 2023 – MAY 2023
Microcontroller-based Cable Testing System

- 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 supply board** for reliable operation.

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
- Applications of AI for Predictive Maintenance
- Generative AI with Diffusion Models

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PROJECTS

Remote Control Robot - DropBot   MARCH 2025

- Designed and assembled a Delivery Robot controlled remotely using a custom made controller via 3G protocol. Developed a mobile app to control the Robot remotely and adaptable to FPV (First Person View).
- **Technologies:** ESP32s, Servo motors, 2x MPU6050, L298N, base robot motors and wheels.

CupCarbon Project – 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.

STM32 & ESP8266 IoT Data Transmission Project   AUGUST 2024

- Built an embedded IoT system using STM32F407 and ESP8266 to send sensor data to ThingSpeak Cloud.
- Configured ADC, UART (with DMA), and GPIO for sensor reading, communication, and debugging.
- Implemented AT command–based Wi-Fi communication for periodic cloud data uploads.
- **Technologies:** C, STM32CubeIDE, HAL Library, UART, DMA, ADC, ESP8266, ThingSpeak
- **Skills**: Embedded Systems, IoT Development, Microcontroller Programming, Cloud Integration

HARD SKILLS

- **Embedded & IoT Systems:** PIC16F877A, PIC32MZ2048ECH-144, ESP32, STM32, Arduino, Raspberry Pi, BLE, MQTT, I2C, SPI, UART, ESP-NOW, Proteus.
- **Programming & Development:** C, C++, C#, Python, Java, Web development (Angular, Spring Boot), Linux, Dart, PHP, JavaFX.
- **Tools & Technologies:** STM32CubeIDE, Arduino IDE, Visual Studio Code, IntelliJ IDEA, Android Studio, Git/GitHub, Firebase, SQL, Oracle, MySQL.
- **AI & Data:** Machine Learning (Python), Data Analysis, Cloud Integration (ThingSpeak, Firebase), IoT Data Visualization.

SOFT SKILLS

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