Florian Pasco

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LinkedIn Profile — GitHub Profile — Website

Junior Embedded Systems Engineer

Results-driven Embedded Systems Engineer with hands-on experience in firmware development, PCB design, and real-time embedded applications. Adept at designing and debugging embedded solutions, from autonomous robots to Bluetooth audio devices. Strong background in microcontroller programming, hardware integration, and real-time operating systems.

Education

École Nationale d'Ingénieurs de Brest (ENIB) – Brest, France
Master's in Embedded Systems Engineering (Expected Graduation: January 30, 2026)
Specialization in firmware development, real-time systems, and hardware design.

École Nationale d'Ingénieurs de Brest (ENIB) – Brest, France
Bachelor's in Engineering (Obtained: 2024)
Focused on Embedded Systems and Electronics.

Technical Skills

- **Firmware & Software:** C, C++, Python, Embedded C, RTOS (FreeRTOS)

- **Hardware:** PCB design, microcontrollers (STM32, ESP32, ARM Cortex), FPGA (VHDL, Verilog)

- **Development Tools:** CubeMX, Git, Jupyter Notebook, ESP-IDF

- **Protocols & Interfaces:** UART, SPI, I2C, CAN, Modbus

- **Testing & Debugging:** Logic Analyzers, Oscilloscopes, Multimeters

Professional Experience

Embedded Developer & PCB/Mechanical Designer (Freelance, Part-Time)
AvelTek – Brest, Brittany, France — February 2025 – Present (Remote)

- Developed embedded software for complex systems, reducing debugging time by 30%.

- Designed 5+ custom PCBs for industrial applications.

- Integrated hardware/software solutions, optimizing performance by 20%.

Embedded Systems Repair Assistant Engineer (Internship)
Breizelec – Châteaulin, Brittany, France — July 2024 – January 2025 (7 months)

- Diagnosed and repaired 100+ electronic systems for agricultural machinery.

- Developed reverse-engineering techniques to improve fault detection.

Autonomous Vehicle Electronics Design Technician (Internship)
AgriProTech® – Quimperlé, Brittany, France — July 2023 – August 2023 (2 months)

- Integrated ArduPilot firmware for improved vehicle stability.

- Optimized RTK GPS, increasing positioning accuracy by 40%.

Projects

JBL Flip 3 Speaker Simulator (Ongoing Project)
Developing a speaker simulator using ESP32 for Bluetooth audio streaming and modular hardware components.

Temperature Control System for a Heating Resistor
Designed a PCB integrating thermal sensors and control logic; developed a real-time temperature regulation system using a thermistor.

Autonomous Robot with Multi-Mode Functionality
Programmed an STM32-based robot with manual, random, and target tracking modes, using distance sensors and image processing for obstacle detection.

Languages

- **English:** Proficient (B1 CEFR – TOEIC 740)

- **French:** Native – Fluent in both professional and technical communication

- **German:** Basic (A2 CEFR)

Why Alten Germany?

- Passionate about cutting-edge embedded systems projects in automotive, aerospace, and industrial sectors.

- Strong alignment with Alten's focus on R&D, particularly in embedded firmware and PCB design.

Available for an interview at your earliest convenience. Looking forward to discussing how I can contribute to your team.
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