

Florian Pasco

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Junior embedded systems engineer looking for a VIE equivalent to an end-of-studies internship

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: STM32CubeIDE, Git, Jupyter Notebook, ESP-IDF
- Protocols & Interfaces: UART, SPI, I2C, CAN
- Testing & Debugging: Oscilloscopes, Multimeters, Advanced brazing skills

Professional Experience

Embedded Developer & PCB/Mechanical Designer (Freelance, Part-Time)

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 (B2 CEFR)
- French: Native
- German: Basic (A2 CEFR)

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