FLORIAN PASCO

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PROFESSIONAL SUMMARY

Results-driven Embedded Systems Engineer with hands-on experience in reverse engineering, PCB design, and firmware development. Skilled in designing and debugging embedded systems, with a strong background in hardware integration, internal component analysis, and microcontroller programming. Proven ability to deliver reliable embedded solutions across a range of hardware platforms.

EDUCATION

École nationale d'ingénieurs de Brest (ENIB), France Master's in Embedded Systems Engineering (Expected: Jan 2026) Specialization: Hardware Design, RF, Firmware Development

École nationale d'ingénieurs de Brest (ENIB), France Bachelor's in Engineering (2024) Focus: Embedded Systems and Electronics

TECHNICAL SKILLS

Hardware: PCB Reverse Engineering, PCB Design, Microcontrollers (STM32, ESP32, ARM Cortex), FPGA (VHDL, Verilog) Testing & Debugging: Oscilloscopes, Multimeters, Advanced Brazing Skills Firmware & Software: C, C++, Python, Embedded C, RTOS (FreeRTOS) Development Tools: STM32CubeIDE, Git, Jupyter Notebook, ESP-IDF Protocols & Interfaces: UART, SPI, I2C, CAN

PROFESSIONAL EXPERIENCE

Electronics Repair Assistant Engineer (Internship) Breizelec, Châteaulin, France — Jul 2024 – Jan 2025 - Diagnosed and repaired 100+ electronic systems for agricultural machinery - Studied and documented the operation of existing electronic boxes

- Developed reverse-engineering techniques for fault detection

Autonomous Vehicle Electronics Design Technician (Internship)
AgriProTech, Quimperlé, France — Jul 2023 – Aug 2023
Integrated ArduPilot firmware for improved vehicle stability
Optimized RTK GPS configuration, improving positioning accuracy

PROJECTS

BoardMapper:

Developed an automated PCB annotation tool using Python and OpenCV for reverse engineering and debugging.

Link: https://florianpasco.com/projects/BoardMapper/

HV2LV-PowerJST:

Designed an open-source PCB to convert 4.8V–15V inputs to 3.3V output using an AMS1117 regulator.

Link: https://florianpasco.com/projects/HV2LV-PowerJST/

BatteryLevelIndicator:

Built a board with LED indicators to monitor battery levels with customizable alert features. Link: https://florianpasco.com/projects/BatteryLevelIndicator/

Temperature Control System:

Created a PCB and real-time control system using a thermistor for heating resistor regulation. Link: https://florianpasco.com/projects/HeaterControl-Shield/

LANGUAGES

English: Proficient (B2 CEFR) | French: Native | German: Basic (A2 CEFR)