

Yann Goulvestre

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Summary

Embedded systems engineer with a cybersecurity background, developing C/C++ software on STM32, Raspberry Pi and i.MX under RTOS and embedded Linux. Passionate about aerospace and defense.

Experience

Embedded Systems Engineer, GACI Technologies - Villebon-sur-Yvette, France Feb 2026 – Present

- Developed a multi-protocol embedded gateway (RTSP video, MAVLink, etc.) that converts and forwards data.
- Worked on a system with GNSS reception and GPS anti-jamming, displaying position and heading.
- C/C++ on STM32, Raspberry Pi and i.MX under RTOS and embedded Linux; tooling in Python and JavaScript.

Software Engineer Intern, Airbus Defence and Space Cyber - Elancourt, France Feb 2025 – Aug 2025

- Added Single Sign-On authentication to the Orion Malware platform using OpenID Connect.
- Built secure communication features with Google Drive and Amazon Web Services.
- Wrote tests and documentation to integrate these features into the product.

Full Stack Developer Intern, ECO-SI - Vaulx-en-Velin, France Sep 2023 – Jan 2024

- Developed and improved a .NET application to optimize the management of organic food stores.

Education

EPITA, Diplôme d'Ingénieur (Master's degree) in Computer Science Sep 2020 – Jul 2025

- Specialization in cybersecurity and embedded systems.
- Exchange semester at Heriot-Watt University, Edinburgh, Scotland (Jan 2022 – May 2022).

Projects

End-of-study in-company project with SMILE 2024

- Passenger information system with audio output and an LCD kernel driver. Tools used: Orange Pi 3 board, C.

Line-following robot 2024

- Built a robot with an infrared sensor that follows a line and draws the route. Tools used: ESP32, C++.

Tiger Compiler 2023

- Created the front-end of a compiler for the Tiger language. Tools used: C++.

42SH 2023

- Implemented a shell following POSIX standards. Tools used: C.

Technologies

Languages: C, C++, Python, C#, Java, JavaScript, Assembly, SQL, Bash.

Embedded: STM32, Raspberry Pi, i.MX, RTOS, embedded Linux, Yocto, device tree, cross-compilation, CMake.

Protocols: UART, SPI, I2C, CAN, Ethernet, TCP/UDP, NMEA, MAVLink, RTSP, GStreamer.

Tools & debugging: Linux, Git, Docker, Bitbucket, Jira, GDB, JTAG, ST-Link, oscilloscope.

Strengths

- English C1 (TOEIC 960/990, 10 months lived in English-speaking countries), French native, Spanish B2.
- ANSSI cybersecurity MOOC (SecNumacadémie).
- Good interpersonal skills, curious, open-minded, autonomous.