



Aymane Gafaiti

FW & SW Engineer

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Professional experience

FW & SW Engineer

Since Feb. 2024 **OVHcloud** Lyon, France

- **BMC & UEFI Firmware R&D:** Led applied research on BMC firmware stack — NTP synchronization, centralized log management, TLS/SSL certificate lifecycle, sensor naming conventions and IPMItool upgrades. Contributed specifications and patches to the FW projects.
- **API Development & NPI Tooling:** Designed and built internal APIs and automation tools to accelerate NPI validation and RUN operations, including a fully deployed firmware validation utility reducing manual effort and error rates across Hardware teams.
- **Product Lifecycle & CMDB:** Developed lifecycle tracking tools for bare metal server firmware; contributed to the architecture and setup of a CMDB supporting firmware inventory, traceability and version management at scale.
- **NPI Delivery:** Managed end-to-end validation cycles for multiple bare metal server generations, from firmware qualification and debugging to supplier follow-up and integration, consistently meeting roadmap deadlines with high quality standards.
- **AI Ambassador:** Designated company AI Ambassador; drove AI adoption within the team through experimentation with ML models, LLM-assisted tooling POCs, and knowledge sharing across engineering communities.
- **Mentoring & Onboarding:** Technically onboarded and mentored **3 interns and 1 full-time engineer**; designed onboarding frameworks and maintained structured engineering documentation on Confluence.

RF embedded systems engineer internship

From Mar. 2023 to Sept. 2023

NXP SEMICONDUCTORS FRANCE Caen, France

- Evaluated Rust for RF embedded development; built HAL modules (crypto, wired serial protocols) with test suites and documentation.
- Designed a C vs Rust benchmarking framework; developed an embedded logging tool for hardware targets.

Embedded software developer internship

From Jun. 2022 to Sept. 2022 **Aveine** Paris, France

- Developed a BLE embedded application in C++; designed an RMA automation tool and resolved hardware electrical issues.
- Collaborated with a Japan-based RF certification team on compliance and validation.

Skills

- **Languages:** French, English, Arabic
- **Soft Skills:** Technical leadership & mentoring, Analytical & problem-solving mindset, Technical writing & documentation, Cross-team collaboration, Initiative & autonomy, Project coordination
- **Programming skills:** Perl, Go, Python, Rust, C, C++, Assembly, Java, VHDL, JS.
- **Project management & integration**
- **Mechatronics & Electronics**
- **Operating systems:** Linux, embedded Linux, RTOS
- **Modeling & Signal Processing**
- **Industrial IT**
- **AI & Machine Learning:** AI/ML, LLM Integration, AI-assisted Tooling, Prompt Engineering, AI Ambassador

Education

Engineering degree in Mechatronics, specialty: (Embedded and Nomadic Systems)

From 2020 to 2023

ESIX NORMANDIE Caen, France

Technical Track

- Embedded systems architecture & real-time OS
- Electronics — analog, digital & power
- Signal processing & control systems
- Microcontrollers, microprocessors, FPGA
- Wireless & wired communication protocols
- Software engineering — C, C++, Python, VHDL
- Computer architecture & operating systems
- Cybersecurity & embedded security
- Mechatronics

Business & Management Track

- French labour law & employee relations
- Corporate finance & accounting
- Entrepreneurship & innovation
- Project management (Agile, Waterfall)
- Business strategy & market analysis
- Marketing & commercial fundamentals
- Management & organizational leadership
- Professional communication & public speaking

Bachelor's degree in electronics, electrical energy and automation

From 2017 to 2020

University of Caen Normandie Caen, France

Academic project

NAE Challenge project " Mission drone

From Sept. 2022 to May 2023

NAE Rouen

2nd Place – National Challenge

Compact BLE system integrating thermal camera and metal detection for drones in disaster zones. Full-stack: PCB design, embedded firmware, web HMI, and automated cartography.