

# Raphaël Fleury-le veso

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## EXPERIENCE

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### Stormshield

Jan. 2025 – Maintenant

*R&D Systems Engineer*

Lille, FR

- Daemon development on **FreeBSD** in **C/C++**
- Deep packet analysis, content decryption & antivirus analysis
- Debugging from cores & bug reports

### Capgemini

Sep. 2024 – Dec. 2025

*Software Engineer*

Lille, FR

- Back-end development of a Java app
- Migration of a live app from Java 6 to Java 17
- Implementation of **Integer Linear Programming** algorithms for path finding

### AlchemyCorp

December. 2023 – Janvier. 2025

*Freelance Software Engineer*

Remote

- High performance automated buying app
- C/C++ backend, high number (>10000) of concurrent connections
- Implementing millisecond event distribution algorithms

### Thalès

May 2023 – Aug. 2023

*Software Engineering Intern*

Tubize, BE

- Developed from the ground-up an end-to-end testing framework for a military communication project (MACS) in C/C++/Rust and RobotFramework
- Built a Wireshark custom plugin

## PROJECTS

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### OS-R

- Rewrote entirely my OS project.
- Writing a functional OS (POSIX-Compliant), compatible with Multiboot2, Limine, and U-BOOT. Porting the LIBC, and LLVM. C/C++/x86-64 ASM

### Student Blockchain

- Multi-featured blockchain for voting and
- Student project. Wrote a complete blockchain system for voting during CIRious days (projects hackaton), included features for usage in payment contexts

### ISEN OS

- Created a new Operating System from scratch, including a bootloader for x86 UEFI platforms
- Ported libc to the new OS, implemented demo apps and worked on documenting functionality

### Drone

- Created a fully functional quadcopter drone from the ground up
- Designed the frame with 3D Printing, designed the PCB in Altium Designer and wrote the control loop (PID) in C. Communication on the 2.4ghz band

## EDUCATION

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### Junia ISEN

Aug. 2021 – Septembre 2024

*Master of Engineering (MEng)*

Lille, France

- **Coursework:** Data Structures, Algorithms, Embedded Programming (PIC, STM32), Networking (OSI, Routing, Security)
- **Community Work:** Secretary at TechIsen

## CERTIFICATIONS

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### Stormshield CSNA

December 2025

*Certified Stormshield Network Administrator*

Villeneuve d'Ascq, France

### FIRST (FCE)

July 2018

*Cambridge english certification. C1 Level. ID: AGL175726*

Lille, France

## SKILLS

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**Languages :** C, C++, Python, ASM x86, ASM x86-64

**Platforms :** FreeBSD, FreeBSD Kernel, Linux, Linux Kernel

**Tools :** GIT, Jira, Neovim, GDB, Clang & LLVM, STM32 Cube IDE