

François Homps



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LANGUAGES

French	native
English	bilingual
Spanish	intermediate
Japanese	rudimentary

SKILLS

Team work and management

- Experienced technical tutor
- Practical use of Agile principles

Computer Science

- 9 years of hands-on C++
- Large-scale C++20, C, C# and Python projects
- Solid GNU/Linux experience
- Contagious Rust enthusiast

Robotics

- Developed 5 autonomous robots

HOBBIES

Cooking

- French / Japanese fusion cuisine specialist

Role-playing games

- Experienced game master
- Developed my own game system (see [my website](#))

Dancing

- Rock enthusiast

Saxophone

Firmware Engineer

WORK EXPERIENCE

2023 - current

[EDF](#) - Montrouge

Product Owner and **System Architect** of EDF's nuclear reactors' central automata programming software suite

- Management of three product declinations based on reactor types
- Balancing of the needs of four different client entities with nuclear standards of quality and safety

2021 - 2023

[Kickmaker](#) - Paris 15th

Embedded software / firmware consultant at Kickmaker, on a mission for Atos

- **GNU / Linux distribution** development for BMC coprocessors on high-performance servers, using Yocto
- **Team lead** for the kernel, userspace and web implementation of PLDM, an open-source standard for hardware management

2019

published in the [IEEE VR 2020](#) international conference

Research internship: lead programmer and co-author of ReViVD, an interactive visualizer of 3D trajectories in **virtual reality**

OTHER PROJECTS

2019 - 2021

Master's project: ADVISE, **machine learning**-based software to estimate the landing viability of Martian terrain from aerial pictures in real time

- Subproject: realistic **GPGPU** terrain generator based on compute shaders

2018

Project manager and lead programmer of Centrale Lyon's 14-student team for the national French Robotics Cup

2017 - 2018

Hardware manager at ÉCLAIR, Centrale Lyon's computer science association

- System administrator of ECLAIR's Debian physical servers
- Technical advisor of student associations for the deployment of their IT projects

2016 - 2017

CPGE school project: hacked a roomba into an autonomous cartographer robot

ACADEMIC BACKGROUND

2019 - 2021

[Space Robotics Group](#) - [Keio University](#) - Japan

Double degree program: **Master of Science in Engineering**

- Classes focused on low-abstraction computer science and optimization

2017 - 2021

[École Centrale de Lyon](#) - France

Multidisciplinary **engineering degree** from a French Grande École

2015 - 2017

[Lycée Janson de Sailly](#) - France

CPGE: Selective prep school for the national exams of French Grandes Écoles