



<https://francois.homps.fr>
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 92130 Issy-les-Moulineaux

LANGUAGES

French	native
English	bilingual
Spanish	intermediate
Japanese	rudimentary

SKILLS

Team leading

- Experienced technical tutor
- Practical use of Agile principles

GNU / Linux

- System administration
- Experience with Linux APIs, drivers, device tree

Programming

- 8 years of practical C++
- Large-scale C++20, C# and Python projects
- Experience with Pytorch, Unity, OpenGL
- Regular use of debuggers, git, CMake

HOBBIES

Cooking

- Managed a kitchen for 30+ people meals

Role-playing games

- Experienced game master

Saxophone

WORK EXPERIENCE

2021 - current

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
- **Team lead** for the full-stack implementation of PLDM, an open-source standard for hardware management

2019

Presented at 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 French National Robotics Cup

2017 - 2018

Rewarded by a Certificate of Volunteer Commitment

Member of ÉCLAIR, Centrale Lyon's computer science association

- **Hardware lead**: sourced hardware and designed the administrative and technical framework for free computer loans to students
- **System administrator** of multiple physical servers
- Technical advisor of other associations for the deployment of their IT projects

2017 - current

System administrator of multiple personal Debian servers, maintained for a community of friends and family

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 and intensive prep school for the national exams of French Grandes Écoles

2015

Sainte-Croix de Neuilly High School - France

Baccalaureate in science with honors