François Homps

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LANGUAGES

French	native
English	bilingual
Spanish	intermediate
Japanese	rudimentary

SKILLS

Team Management
○ Experienced technical tutor
○ Practical use of Agile principles

Robotics
○ Developed 5 autonomous robots
○ Experience with Linux APIs, drivers, device tree

Computer Science
○ 8 years of practical C++
○ Large-scale C++20, C, C# and Python projects
○ Familiar with GNU tools, Linux APIs, drivers, device tree

HOBBIES

Cooking
○ Managed a kitchen for 30+ people meals

Role-playing games
○ Experienced game master

Saxophone

Engineer

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, using Yocto

○ **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