

# François Homps



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## LANGUAGES

French	native
English	bilingual
Spanish	intermediate
Japanese	rudimentary

## IT SKILLS

### GNU / Linux

- 4 years of experience in server administration

### Programming

- 7 years of C++ practice
- Large-scale C# and Python projects
- Experience with Pytorch, Unity, OpenGL, SFML
- Regular use of debuggers, git, GitHub

### Web dev / design

- Built my own website
- This resume was made in HTML / CSS

## USEFUL HOBBIES

### Cooking

- Cooked 30+ people meals, managing the kitchen

### RPG Game Master, Drama

- 8 years of drama club
- Experienced narrator

# Engineering student

## ACADEMIC BACKGROUND

2019 - current                      Space Robotics Group - Keio University - Japan  
Double degree program: **Master of Science in Engineering** under the supervision of Dr. Genya Ishigami

- Master's project: ADVISE, AI-based software to estimate the landing viability of Martian terrain from aerial pictures in real time
- Accompanying classes focused on low-abstraction computer science and optimization

2017 - 2019                      École Centrale de Lyon - France  
**Engineering degree** studies at a top French Grande École

- Classes covered a broad range of multidisciplinary topics

2015 - 2017                      Lycée Janson de Sailly - France  
**CPGE**: Highly selective and intensive prep school for the national exams of French Grande Écoles

- 2-year study project: hacked a roomba into an autonomous cartographer robot

2015                      Sainte-Croix de Neuilly High School - France  
Baccalaureate in science with honors

## WORK EXPERIENCE AND RESPONSIBILITIES

### Computer Science

2019                      Presented at the IEEE VR 2020 international conference  
Research internship: lead programmer and co-author of ReViVD, a Unity-based virtual reality visualizer of 3D trajectories with a focus on immersive interactions

2017 - 2018

Member of ÉCLAIR, Centrale Lyon's computer science association

- System administrator of multiple physical servers, delivering an Internet connection and accompanying services to 400+ students
- Head of ÉCLAIR's hardware deployment and maintenance branch
- Carried out the deployment and continuation of a service of computer rentals for the student body

2017 - current

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

### Robotics

2018

Project manager and lead programmer of Centrale Lyon's team for the National Robotics Cup

### Industrial Work

2018

One-month-long unskilled labor internship at the Cordon Electronics factory in Dreux, France