François Homps

Firmware Engineer

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92130 Issy-les-Moulineaux

LANGUAGES

French	native
English	bilingual (C2)
Spanish	intermediate (B1)

SKILLS

Team work and management
- Experienced technical tutor
- Practical use of Agile principles

Computer Science
- 10+ years of hands-on C++
- Large-scale C++20, C, C# and Python projects
- Contagious Rust enthusiast and regular at the Paris Rust Meetups
- Solid GNU/Linux experience
- Home lab sysadmin

Robotics
- Developed 5 autonomous robots

HOBBIES

Saxophone
- Jazz & Swing aficionado with on-stage experience

Cooking
- French / Japanese fusion cuisine explorer

Role-playing games
- Experienced game master
- Developed my own game system

WORK EXPERIENCE

2024 - current — Eviden - Les Clayes-sous-Bois
Firmware Architect of the Advanced Computing product line, including HPC servers
- BIOS, BMC & FPGA firmware requirement design and specification (Polarion)
- Technical coordinator of the implementation of modern distributed management technology (Redfish / MCTP / PLDM / SPDM...)
- Initiator and mentor of an internship on advancing open-source standard and implementation of Redfish interoperability profiles

2023 - 2024 — EDF - Montrouge
Product Owner and **System Architect** of three programming software suites for the control-command automata of nuclear reactors
- Balanced the needs of four different client entities while ensuring compliance with nuclear quality and safety standards

2021 - 2023 — Kickmaker (on-site subcontractor for Eviden) - Paris 15th
Firmware Engineer in BMC coprocessor team of Eviden's HPC R&D division
- OpenBMC GNU/Linux distribution development (Yocto / C / C++ / shell / python)
- Team lead for the kernel and userspace implementation of PLDM, an open-source hardware management standard

2019 — LIRIS - published at 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 for estimating 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 the campus' on-premise networking and cloud servers

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