

# Hugo Rodde

SOFTWARE ENGINEER & TECHNICAL LEADER

#IoT · #WEB SERVICES

Marseille, France

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Technology enthusiast concerned about creating a sustainable future and exploring the outdoors. I am driven by common sense and goodwill, and always eager to learn from others. I am keen on designing products to solve specific issues.

## Experience

### IoT solutions by Smart & Connective · Reduce your impact on the environment

Marseille, France

SOFTWARE ENGINEER & FIRMWARE DEVELOPER · FULL-TIME

since may. 2020

- Smart occupancy firmware and embedded tracking algorithms based on a 8x8 pixels thermopile sensor with Z-Wave
- Z-Wave and Zigbee GNU/Linux gateway with touchscreen GUI based on i.MX6ULL built with the Yocto Project

### Freelance Software Engineer · Get your IoT product right

Marseille, France

SELF-EMPLOYED

sept. 2019 - apr. 2020

- Helping companies design, develop, validate and ship prototypes and high-tech products
- Interested in building applicative and embedded solutions along with the needed web services

### Smart Remote by Sevenhugs · The magic wand for your smart home

Paris, France

TECH LEAD & SOFTWARE ARCHITECT · FULL-TIME

mar. 2018 - aug. 2019

- Focused on team, processes, coding standards and software quality leveraging Gitlab and Jira
- Iterated with the product team for features development with Figma and Confluence
- Designed, developed and maintained the core layer architecture backed by UML diagrams
- Reduced technical debt with toolings, code smells refactoring and pair programming sessions

SOFTWARE ENGINEER · FULL-TIME

mar. 2017 - feb. 2018

- Developed both applicative and middleware layers, from a prototype to a MVP
- Designed and lead core layer building blocks development as solid foundations
- Pushed for engineering tools and automated tests for faster development cycles
- Worked with C, C++, Python, Lua, TCP/UDP and GDB on STM32F4 and Unix platforms

### Karma by GoPro · The drone for professional and amateur video footages

Zurich, Switzerland

SOFTWARE ENGINEER · INTERNSHIP

sep. 2016 - feb. 2017

- Built a development board and test bench to evaluate sensors and algorithms for UAVs
- Delivered a calibration software for a device composed of stereo camera and an IMU
- Developed a CI platform with Jenkins so the team can practise Test Driven Development
- Worked with C, C++, Python, ROS, Gazebo, Jenkins, Kalman Filter and Stereo Vision on Linux

### Motion by Equisense · The wearable for equestrian sports

Compiègne, France

FIRMWARE DEVELOPER · FREELANCE

sep. 2015 - feb. 2016

- Worked on embedded communication interfaces with UART, SPI, I2C and BLE
- Developed core software blocks like the state machine, fsmOS scheduler and battery manager
- Worked with C, Python and GDP on ARM Cortex M4 platforms (STM32F4 & nRF52)

### USEC Consulting · The UTC's Junior-Entreprise

Compiègne, France

VICE-PRESIDENT · STUDENT GOVERNEMENT

feb. 2014 - jul. 2014

- Maintained turnover above 100k€ by building customer loyalty and improving internal processes
- Actively mentored project managers to be thoughtful leaders and great communicators
- Developed a Quality Management System (QMS) to reduce non-compliance situations

## Education

### Master's degree in Computer Engineering, with focus on Embedded Systems

Compiègne, France

UTC (UNIVERSITÉ DE TECHNOLOGIE DE COMPIÈGNE) · STRONG INVOLVEMENT IN STUDENT UNIONS

2011 - 2016

## Skills

### Engineering Tools

C, C++, Python, Lua, Shell, Git, Yocto, SQL/NoSQL, NumPy, SciPy, Design Patterns, State Machines

### Embedded Systems

Linux, ROS, Qt, OpenCV, ARM, EFR32, STM32, nRF52, TCP/UDP, mDNS, UPnP, MQTT, HTTP, REST, Zigbee, Z-Wave

### Spoken Languages

French—Mother tongue, English—Fluent (TOEIC 950/990), Portuguese—Intermediate (6-months in Brasil)