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French  
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## Embedded system and software engineer

8 years work experience

Appeal for low level concurrent code, tooling and automated CI pipeline

### Work experience

2017 – now github: @RIOT-OS	<b>Rapstore - App store for the open source MCU OS RIOT</b> <i>Freie Universität Berlin</i> Bug fix and evolve build system and tooling to support development outside of the main repository and automated testing directly by developers on hardware. Reach expert level in the existing build system with his bugs, hacks, and special cases. Work in an open source project with non expert peer reviews. Separate steps for evolution documentation, bug fix, cleanups, refactoring, new feature introduction, tests and static tests, documented deprecation, iterative conversion to feature. git, make, Python, bash, C, pytest, Jenkins, github
2011 – 2017 github: @iot-lab	<b>Embedded development for large scale sensor testbed FIT-IoT-LAB</b> <i>Inria Grenoble</i> Design and development of the testbed embedded software and network architecture. Yocto-Linux distributions with large scale NFS deployment running Python and C control software with FreeRTOS power and radio monitoring firmware on cortex-m3 $\mu C$ . Implementation of the continuous integration process with Yocto and software on hardware deployment, and on target unit and integration testing. Target of 100% branch coverage. Design, development of user command line tools and embedded usage examples. English documentation and user support for the embedded software and testbed usage. C, Python, ARM-CortexM3, RTOS, Yocto, IPv6, Jenkins, CI automated tools
Teaching 2 years Internship 2011-6 month	<b>Development of an OS with virtual memory on x86</b> <i>Grenoble INP - Ensimag</i> <b>Post assertion core dump solution for an embedded system</b> <i>THALES Avionics Valence</i> Generate a full post assertion processor and memory state core dump and debugger reloading DSP asm, gdb, linkerscript, COFF <i>Galileo Positioning System ground equipments</i>

### Education

2008 – 2011	<b>Grenoble INP - Ensimag, Master degree in embedded systems and softwares</b> <i>Top French computer science and math engineering school</i> Operating system, multithreaded programming, distributed systems, real time systems, SoC architecture, hardware security, fault tolerance - <i>From hardware to networking</i>
2006 – 2008	<b>Two-year highly selective classes to prepare for Grandes Ecoles competitive exams</b> "Classe préparatoires aux grandes écoles" Mathematics, physics <i>Lycée Kleber, Strasbourg</i>

### Representative school projects

<b>Embedded OS</b>	Embedded MIPS multitask operating system with kernel/user space - <i>C, assembly, syscalls, irq</i>
<b>Linux Driver</b>	FPGA network card driver on an embedded Linux - <i>C, Embedded Linux</i>
<b>Distributed</b>	Distributed hash table design and development - <i>C, unix sockets, concurrency, distributed</i>

### Technical skills

<b>Languages</b>	C, Python, Assembly, Bash
<b>Tools</b>	GNU/Linux, Advanced Git, Yocto, Jenkins, Terminal/vim, Makefile
<b>Testing</b>	Unit and integration tests, setup of an on target CI process, test and code coverage reports

### Languages

<b>French</b>	Mother tongue
<b>English</b>	Working knowledge and conversational. Working in English for 8 years
<b>German</b>	Conversational, good oral comprehension, Level B2

### Activities

<b>Free Time</b>	Metal music, beer tasting, cooking, video games, board games, climbing
<b>Volunteering</b>	Treasurer: Beer tasting and concert production non profit organizations University: In charge of the Cafeteria, Food events organization and purchasing expert

References available upon request.