

## Embedded system and software engineer 6 years work experience

Looking for a position as an embedded software engineer

From September 2017

### Work experience

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2011 – 2017 <i>1<sup>st</sup> job</i>	<b>Architecture and development for large scale wireless sensor testbed FIT-IoT-LAB</b> Design and development of the testbed embedded software and network architecture. From the embedded Yocto-Linux distributions with large scale deployment over NFS. To the embedded control and administration softwares comprising a Python server and an embedded real-time monitoring firmware (Cortex-M3). Design, development of users access tools and embedded usage examples. English documentation and user support for the embedded software and testbed usage. Implementation of a full continuous integration process, from Linux distribution generation, deployment on hardware and on target software testing. C, Python, ARM-CortexM3, RTOS, Embedded Linux - Yocto, IPv6, 6LowPAN, 802.15.4, continuous integration. <i>Team FIT-IoT-LAB - Inria Grenoble</i>
2015, 2016 <i>Teaching</i>	<b>Development project of an x86 operating system with virtual memory</b> <i>Grenoble INP - Ensimag</i>
2011 <i>Internship</i>	<b>Post assertion core dump generation and export for an embedded system</b> Generate a full post assertion processor and memory state core dump reloadable in debugger. Processor registers, Assembly Language, C++, gdb, linkerscript, COFF binary. <i>Galileo Positioning System ground equipments software team - THALES Avionics Valence</i>

### Education

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2008 – 2011	<b>Grenoble INP - Ensimag - Master degree in embedded systems and softwares</b> <b>École nationale supérieure d'informatique et de mathématiques appliquées (top French computer science and math engineering school)</b> Operating system, real time systems, multithreaded programming, on-chip system architecture, distributed systems, hardware security, fault tolerance
2006 – 2008	<b>Two-year highly selective classes to prepare for the competitive exams to the Grandes Ecoles</b> Mathematics, physics <i>Lycée Kleber, Strasbourg</i>

### Representative school projects

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<b>Embedded OS</b>	Embedded MIPS operating system development - <i>C, assembly</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, socket.h, concurrency, distributed</i>

### Technical skills

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<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, implementation of a continuous integration process

### Languages

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<b>French</b>	Mother tongue
<b>English</b>	Working knowledge and conversational, TOEIC 835
<b>German</b>	Conversational, good oral comprehension, Level A2

### Spare-time activities

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	Metal music, cooking, video games, climbing
	<b>Volunteering</b>
2015 – Now	Treasurer of JustBeer - Beer tasting organization
2015 – Now	Treasurer of Mormegil - Metal concert production organization

References available upon request.