

Embedded system and software engineer 6 years work experience

Looking for a position as an embedded software engineer

From September 2017

Work experience

2011 – 2017 <i>1st job</i>	Architecture and development for large scale wireless sensor testbed FIT-IoT-LAB 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>	Development project of an x86 operating system with virtual memory <i>Grenoble INP - Ensimag</i>
2011 <i>Internship</i>	Post assertion core dump generation and export for an embedded system 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

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

Representative school projects

Embedded OS	Embedded MIPS operating system development - <i>C, assembly</i>
Linux Driver	FPGA network card driver on an embedded Linux - <i>C, Embedded Linux</i>
Distributed	Distributed hash table design and development - <i>C, socket.h, concurrency, distributed</i>

Technical skills

Languages	C, Python, Assembly, Bash
Tools	GNU/Linux, Advanced Git, Yocto, Jenkins, Terminal/vim, Makefile
Testing	Unit and integration tests, implementation of a continuous integration process

Languages

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

Spare-time activities

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

References available upon request.