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

## Education

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| 2008 − 2011 | **Grenoble INP - Ensimag - Embedded systems and softwares courses**<br>**École nationale supérieure d'informatique et de mathématiques appliquées**<br>**(top French computer science and math engineering school)**<br>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 *Lycée Kleber, Strasbourg* |

## Representative school projects

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

## Technical skills

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| **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

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

## Spare-time activities

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| | 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.**