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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 – 2019 github: @RIOT-OS	Rapstore - App store for the open source MCU OS RIOT Freie Universität Berlin 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 its 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 in troduction, tests and static tests, documented deprecation, iterative conversion to feature. git, make, Python, bash, C, pytest, Jenkins, github
2011 - 2017 github: @iot-lab	Embedded development for large scale sensor testbed FIT-IoT-LAB Inria Grenoble
Teaching 2 years Internship 2011-6 month	Development of an OS with virtual memory on x86 Grenoble INP - Ensimag Post assertion core dump solution for an embedded system THALES Avionics Valence Generate a full post assertion processor and memory state core dump and debugger reloading DSP asm, gdb, linkerscript, COFF Galileo Positioning System ground equipments
Education	
2008 - 2011 2006 - 2008	Grenoble INP - Ensimag, Master degree in embedded systems and softwares Top French computer science and math engineering school Operating system, multithreaded programming, distributed systems, real time systems, SoC architecture, hardware security, fault tolerance - From hardware to networking Two-year highly selective classes to prepare for Grandes Ecoles competitive exams "Classe préparatoires aux grandes écoles" Mathematics, physics Lycée Kleber, Strasbourg
Representative s	chool projects
Embedded OS Linux Driver Distributed	Embedded MIPS multitask operating system with kernel/user space - C, assembly, syscalls, ire FPGA network card driver on an embedded Linux - C, Embedded Linux Distributed hash table design and development - C, unix sockets, concurrency, distributed
Technical skills	
Languages Tools Testing	C, Python, Assembly, Bash GNU/Linux, Advanced Git, Yocto, Jenkins, Terminal/vim, Makefile Unit and integration tests, setup of an on target CI process, test and code coverage reports
Languages	
French English German	Mother tongue Working knowledge and conversational. Working in English for 8 years Conversational, good oral comprehension, Level B2
${f Activities}$	
Free Time Volunteering	Metal music, beer tasting, cooking, video games, board games, climbing Treasurer: Beer tasting and concert production non profit organizations University: In charge of the Cafeteria, Food events organization and purchasing expert