Thomas Venriès

Looking for: Permanent contract, Software Engineer
Mobility: France, Paris Area

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English: Bilingual
Driver's license

Formation

2015-2017 **Master, Specialty Real Time and Embedded Systems**, *EPITA*, France.
2014 **Placement year, Advanced English**, *The Linguaviva Centre*, Irlande.
2013 **EPITA international semester**, *UQAC*, Canada.
2011-2013 **General Engineering**, *EPITA*, France.

Professional Experiences

Feb - Aug 2017 **Embedded Software Engineer**, *Safran Electronics & Defense*, France.
Case study of adding new board and its peripherals to QEMU. Documentation of the process and QEMU's API.
R&D internship based on QEMU :

- QEMU core study (focused on time and IO handling systems).
- FreeRTOS and Buildroot porting on the emulation
- Kernel panic debugging
- ARM bare metal development : C/ASM (+ Crosstool-ng)
- Open Source contribution

Sep - Jan 2015 **Full-Stack Developer**, *REEDS International laboratory at OVSQ*, France.
Serious Game Development.
R&D internships based on a 3D Web application :

- Game development platform : Unity3D (C#/JS), WebGL
- Web development : Plain JS (+JQuery), HTML5/CSS3
- Web backend : R Shiny, PHP and MySQL
- App deployment on MIRE (screen wall) at OVSQ
- Collaboration with researchers, PhD and engineers in an international laboratory
- End-to-end project experience (V-cycle)

May - Jul 2013 **Software Developer**, *REEDS International laboratory at OVSQ*, France.
Serious Game Development. R&D internships based on a 3D Web application. Specifications and POC.

Projects

{C/C++} **Embedded Systems**, *EPITA*.
Development on STM32, Beaglebone, Intel Galileo and Raspberry-Pi.
Management of several sensors and wireless modules. OpenOCD, cross-compilation and debugging.
Xenomai and Yocto configuration and installation. FreeRTOS API development.

{C} **Linux Kernel**, *EPITA*.
Reverse engineering with Wireshark for an USB Led fan and development of its driver.
Buddy-System malloc and GNU make implementations.

{C} **STOS Kernel,** *EPITA*, GDT/IDT initialization, interrupts and pagination management, PIT.

{C} **Paralull,** *EPITA*, Wait-free Queue implementation (google/benchmark).

{C} **42sh,** *EPITA*, POSIX compliant Shell (tests, doc, coverage, portability).

{OCAML} **BCMV-OCR,** *EPITA*, Development of an optical character recognition application (scan to XML).

{Autre} `https://github.com/Ventto`.

Skills

Programming C, C++, Shell and Python.
Experiences ARM, Linux Kernel debugging, GDB/Valgrind, Git/CI.
Monitoring Redmine, Gitlab, Software documentation (Pandoc, Sphinx), LaTeX.
Social Great integration in international teams.
Languages French : Native, English : Bilingual.

Hobbies Piano, Stand-up Jet Ski, Boxing, Cooking, Cinema, Hiking, Travels.