Thomas Venriès

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

1992/09/03
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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 — **Full-Stack 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. Familiarisation avec FreeRTOS, Xenomai et Yocto.
{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, Voyages.