

# Thomas Venriès

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

1993/09/03

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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 **Embedded Software Engineer, Safran Electronics & Defense, France.**
- 2017 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 **Full-Stack Developer, REEDS International laboratory at OVSQ, France.**
- 2015 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 **Full-Stack Developer, REEDS International laboratory at OVSQ, France.**
- 2013 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), L<sup>A</sup>T<sub>E</sub>X.
- Social Great integration in international teams.
- Languages French : Native, English : Bilingual.
- Hobbies Piano, Stand-up Jet Ski, Boxing, Cooking, Cinema, Hiking, Voyages.