

Florent Revest

Software Engineering Student

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Work Experience

- May 2017 **Embedded Systems Consultant** *Self-Employed, Toulouse, France*
- Present
○ Assist my clients with software/hardware integration on mobile and automotive Linux platforms
○ Experience includes GPU, LTE, WLAN, GPS, Bluetooth Low Energy, Sensors, Camera and Audio
- July - Aug. 2017 **Kernel Security Engineer (Intern)** *ARM, Cambridge, United Kingdom*
○ Implemented a memory protection hypervisor for ARMv8 virtual machines in half the given time
○ Proposed a UEFI firmware sandboxing mechanism using KVM to the Linux Kernel community
- July - Aug. 2016 **Video Codec Engineer (Intern)** *Free Electrons, Colomiers, France*
○ Created a device driver and library for MPEG2 decoding using Allwinner Video Processor Units
○ Closed one of the "High Priority Reverse Engineering Projects" of the Free Software Foundation
- July 2015 **Graphics Software Engineer (Intern)** *Open Wide Ingénierie, Toulouse, France*
○ Developed an EGL and GL ESv2 graphics backend for the Enlightenment Foundation Libraries
○ Resulted in a new contract between Open Wide and Samsung Electronics to continue my work

Personal Open Source Projects

- AsteroidOS** Full operating system for smartwatches based on Linux, Yocto, Wayland, BlueZ and Qt
- Raspcopter** Drone flight system (sensors fusion, filtering, stabilization, telemetry and remote control)
- Applications** An online game, a music player a books manager for Android. More than 15000 downloads
- Others** An x86 kernel when I was 14 y.o., an X11 desktop environment, a facial recognition tool...

Awards and Achievements

- Media Featured on **Wikipedia**, Wired, PCWorld, XDA-Dev, CNX-Soft, Golem, and 300 others
Speaker at **FOSDEM**, QtCon, C++ Workshops, Embedded Meetups, FOSS-North, CdL...
Helped **Jolla** with their watch demo and **ConnectWatch** with their watch crowdfunding
- Titles **Hero Open Source Developer**: Granted by Sony for my work on their Broadcom devices
Student-Entrepreneur: National status given by the government for my consulting work
- Contests **Student Demo Cup**: Nominated to the Paris Open Source Summit's contest (2016)
Google Code-In: Contributed to KDE, HaikuOS and OpenIntents (2009-10 and 2010-11)

Education

- 2014–2019 **MSc in CS (Diplôme d'Ingénieur Informatique)** *INSA, Toulouse, France*
Computer Architecture, Real Time Firmware, System and Network Security, Artificial Intelligence...

Technical Skills

- Languages** C, C++, Java, Python, QML, ARM Asm **Libs** Qt, Android SDK, SQLite, Xlib
Software OpenEmbedded/Yocto, Git, Vim, Bash **Other** Wayland, BlueZ, OFono, Dbus, i²c

Languages

- French** Native language **German** Conversational (8 years at school)
English Fluent **Mandarin** Beginner (3 years at school, ASINSA)