Florent Revest

Software Engineering Student

□ +33 6 24 05 17 49 • □ revestflo@gmail.com

希 8 Allée des Sciences Appliquées, Résidence 3, Appt. 1743, 31400 Toulouse, France

Work Experience

May 2017 - Embedded Systems Consultant

Self-Employed, Toulouse, France

- Present o Assist my clients with software/hardware integration on their mobile Linux and Android products
 - o Experience includes GPU, LTE, WLAN, GPS, Bluetooth Low Energy, Sensors, Camera and Audio

July - Aug. Kernel Security Engineer (Intern)

ARM, Cambridge, United Kingdom

- 2017 Implemented a memory protection hypervisor for ARMv8 virtual machines in half the given time o Proposed a UEFI firmware sandboxing mechanism using KVM to the Linux Kernel community
- July Aug. Video Codec Engineer (Intern)

Free Electrons, Colomiers, France

- 2016 Created a device driver and library for MPEG2 decoding using Allwinner Video Processor Units o 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
 - o Developed an EGL and GLESv2 graphics backend for the Enlightenment Foundation Libraries
 - o Resulted in a new contract between Open Wide and Samsung Electronics to continue my work

Personal Open Source Projects

AsteroidOS Complete operating system for smartwatches. Sold in devices such as the ConnectWatch

Raspcopter Drone flight system (sensors fusion, filtering, stabilization, telemetry and remote control)

Applications An Android music player, an online game, a library manager... More than 15000 downloads

Others An X11 desktop environment, an x86 kernel, a facial recognition script, a recovery 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, ENet, Xlib

Software OpenEmbedded/Yocto, Git, Vim, Bash Other Wayland, BlueZ, OFono, DBus, i²c

Languages

French Native language **German** Conversational (8 years at school)

Mandarin Beginner (3 years at school, ASINSA) **English** Fluent