Florent Revest
Software Engineering Student

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▬▬ Work Experience

May 2017 - Present — **Embedded Systems Consultant** — *Self-Employed*, Toulouse, France
- Assist clients in the mobile and automotive industries with Linux & Android platform development
- Experience includes: OTA updates, Hardware Acceleration, Media Services, Bluetooth, Sensors…

July - Aug. 2018 — **LIDAR Perception Engineer (Intern)** — *EasyMile*, Toulouse, France
- Investigated SLAM algorithms from Berkeley, Carnegie Mellon & Google for autonomous driving
- Explored surface reconstruction from point clouds data. Involved in a new LIDAR characterization

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 GLESv2 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 smartwatch demo and **ConnectWatch** with their 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
World Champions Programming School: Intensive training for ACM ICPC *(2017)*
Google Code-In: Contributed to KDE, HaikuOS and OpenIntents *(2009-10 & 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…

Aut. 2018 — **Exchange Semester** — *NTNU*, Trondheim, Norway
Speech Recognition, Natural Language Processing, Computer Vision, Machine Learning…

▬▬ Technical Skills & Languages

Technologies — C, C++, Java, Python, QML, ARM Asm, Qt, Android SDK, OpenEmbedded/Yocto, Git
Languages — French *(Native)*, English *(Fluent)*, German *(Conversational, 7Y)*, Mandarin *(Beginner, 4Y)*