# Florent Revest

## Software Engineering Student

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## ▬▬▬ Work Experience

| May 2017 - Present | **Freelance Embedded Systems Consultant** | *Self-Employed*, Trondheim, Norway |
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○ Assist clients in the mobile and automotive industries with Linux & Android platform development
○ Experience includes: hardware adaptation, Bluetooth Low Energy, OTA updates, OEM relations...

| July - Aug. 2018 | **Self-Driving Car Engineer (Intern)** | *EasyMile*, Toulouse, France |
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○ Investigated SLAM algorithms from Berkeley, Carnegie Mellon & Google for autonomous driving
○ Contributed an in-depth rewrite of Google Cartographer's technical documentation. Used ROS

| July - Aug. 2017 | **Kernel Security Engineer *(Intern)*** | *ARM*, Cambridge, United Kingdom |
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○ Implemented a memory protection hypervisor for ARMv8 operating systems 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 |
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○ Created a Linux device driver for MPEG2 decoding on Allwinner VPUs. Merged mainline by Linus
○ 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 |
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○ 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. Open-source replacement for Wear OS by Google
**Raspcopter**  Drone flight system (sensors fusion, filtering, stabilization, telemetry and remote control)
**Mobile apps**  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**, Engadget, TheRegister, Wired, PCWorld, linux.com, THN, XDA ...
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 granted by the french government for all my 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 |
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Computer Architecture, Real Time Firmware, Compilers Design, System and Network Security...

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

## ▬▬▬ Technical Skills & Languages

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