

Fabien Freling

Nationality: French
Living in Paris, France

Phone: +33 6 21 54 47 23
Email: fabien@ffreling.com
Website: <http://www.ffreling.com>
GitHub: [ffreling](https://github.com/ffreling)

Senior Software Engineer

► PROFESSIONAL EXPERIENCE

Jun 2015 - Present



Senior embedded software engineer at **DxO** in Boulogne (France).
Working in the Camera Controls team on auto expose, auto white balance, etc, for the **DxO One**.

Jun 2011 - Jun 2015



Research engineer at **LTU technologies** in Paris (France).
Working in the Algorithm team on image matching, similarity and performance tuning on large scale databases (millions of images).

Mainly working in C++ and keeping myself updated in the latest advancements in C++ (compilers, standards) to see how we can improve our code base. Advocate for development best practices: code review, code quality, release management

Development of iOS applications to showcase our image recognition technology.

Jan 2010 - Jun 2011



Software engineer at Nokia **Qt Development Frameworks** in Oslo (Norway).
Worked in the Graphic team on the graphics system raster. Optimized the software rasterizer for CoreGraphics.

Worked on the Mac OS X port of Qt in general, keeping it updated with the latest Mac technologies (FSEvents, unified toolbar, etc) to make Qt applications blend on Mac OS X.

Feb 2009 - Oct 2009



Research engineer at the **Gustave Roussy Institute** in Villejuif (France) on the Mélimage project in collaboration with the **LRDE**. Worked on a unified platform for medical imaging involving segmentation and registration with heterogeneous data.

Development of the **Olena platform** for the needs of the Mélimage project (speed optimizations, specific I/O like DICOM format).

Feb 2008 - Aug 2008



Intern at Siemens Corporate Research in Princeton (New Jersey, USA).
Worked on **XIP**, an image processing platform used in the medical field, extending the network and multithreading capabilities. Ported it to UNIX (Mac OS X & Linux).

Sept 2007 - Jan 2008

Teacher assistant at **EPITA**: teaching C and C++ to third year student, elaboration of projects

► EDUCATION

2003 - 2008

Graduated from **EPITA** in Paris, a five year degree course equivalent to a Master of Science in computer science and engineering with two years of intense undergraduate study. Majored in cognitive science and artificial intelligence.

► SKILLS

General: Computer vision, image processing, machine learning, SIMD
OS: UNIX (Linux, *BSD), Mac OS X, iOS
Prog. languages: C/C++, Python, Objective-C/Swift, OCaml, Go
Frameworks: Cocoa, Qt, OpenCV, Boost, scikit-learn
Tools: vim, emacs, git, valgrind, gdb, subversion, Qt Creator, Apple Dev Tools (Xcode, Instruments)
Languages: English (fluent), French (native language)