

# Fabien Freling

Nationality: French  
Living in Paris, France

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## Senior Software Engineer

### PROFESSIONAL EXPERIENCE

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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

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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

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**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)