Fabien Freling

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Senior Software Engineer

PROFESSIONAL EXPERIENCE



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). LTU technologies 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 undated in the latest advancements in C++

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

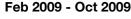
Development of iOS applications to showcase our image recognition technology.

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.





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 2008Intern at Siemens Corporate Research in Princeton (New Jersey, USA).SIEMENSWorked 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)