

# Xavier Michelon

## Lead Software Engineer

Looking for a challenging position in a development team

### Personal Information

Route d'Yverdon 4  
CH-1028 Prévèrènges  
Switzerland  
[x-mi.com](http://x-mi.com)

Born on September, 13<sup>th</sup> 1977 in Valence (France)  
Single  
French citizenship  
Swiss C work permit valid until November 2017

### Skills

#### Languages

Strong experience with a wide range of languages

<b>C++ / C</b>	20 years of experience
<b>Object Pascal</b>	3 years of experience in Delphi development
<b>Perl, Ruby, Python</b>	Often used for task automation
<b>SQL</b>	Occasionally used for database related work
<b>Web languages</b>	Experience with HTML, XHTML and CSS
<b>Misc. tools</b>	Lisp, Prolog, Matlab

#### Technical Management

<b>Project Management</b>	Planning, setup, execution and monitoring of engineering projects
<b>ISO Certification</b>	Track record of successful ISO 9001 & ISO 13485 certifications
<b>Technology watch</b>	Active watch of the software, electronics, and robotics fields

#### Graphic Programming

1<sup>st</sup> Specialization

<b>OpenGL</b>	Excellent knowledge of the API
<b>Image Synthesis</b>	Mastering all major techniques of the area
<b>Image Processing</b>	Good knowledge of standard image processing algorithms
<b>Misc. tools</b>	Advanced knowledge of Photoshop and major 3D suites

#### GUI Programming

2<sup>nd</sup> Specialization

<b>Qt, WxWidgets</b>	Used extensively for cross-platform development
<b>MFC</b>	5 years experience in MFC development
<b>Cocoa</b>	Used as a hobbyist for personal applications
<b>Misc. tools</b>	Some experience with Xlib, Motif & GTK+

#### Development Tools

<b>Compilers and IDE</b>	MS Visual Studio, GCC, Xcode
<b>Version Control</b>	Git, Subversion, Code Co-op, CVS
<b>Wise, NSIS</b>	Some experience with release management tools
<b>Redmine, TestTrack</b>	Strong background in test procedures, QA and related tools

#### Systems

Experience with the major operating systems

<b>Windows</b>	Used as a primary platform for more than 10 years
<b>Mac OS</b>	Excellent knowledge of the platform
<b>Unix / Linux</b>	Past experience with many Unix platforms (Linux, BSD)

## Professional Experience

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### **KITRIS AG**

**Lead software engineer**  
January 2012 - Present  
Préverenges (VD), Switzerland

#### **Development of a smart watch for tennis players**

- Management of the company's software development activities.
- Design and development of low and high level embedded software (C, NLP-5x)
- Design and development of desktop and software(C++, Qt, USB)
- Design and development of server software (C++, Qt, SQL)
- Active watch of the R&D fields for wearable devices, voice recognition & smart body sensors.

### **Toradex Mechatronics Sarl**

**Lead software engineer /  
Project manager**  
September 2008 – November 2011  
Renens (VD), Switzerland

#### **Development of software for embedded tools, Mechatronics R&D projects**

- Maintenance of USB based sensor drivers for Windows and Linux (C++, MS Robotics)
- Development of software tool for custom low-power computers (C++, Intel Atom, Qt)
- R&D in the field of mobile robotics software, low power wireless communications (Zigbee, Bluetooth Low Energy)

### **Xitact S.A.**

**(now Mentice AB)  
Lead software engineer**  
September 2005 – August 2008  
Morges (VD), Switzerland

#### **Development of medical simulation devices**

- Specification and implementation of hardware interface APIs for several generations of hardware devices (C, C++)
- Development of test tools and methods (C/C++, Perl)
- Development of Technical documentation
- Interfacing software and hardware development departments

### **Xitact S.A.**

**Software engineer**  
November 2001 – August 2005  
Morges (VD), Switzerland

#### **Development of a simulation system for mini-invasive endoscopic surgery**

- Development of a rendering engine (C/C++, OpenGL)
- GUI Development (Delphi, C++)
- Database and reporting tool development (SQL, MS Access, Delphi)
- Release Management (Perl, Wise for Windows)

### **Linux Magazine France**

**Freelance editor**  
January 2001 – December 2001

#### **Author of a series of articles teaching OpenGL programming using the C language**

### **France Propreté**

**Intern engineer**  
February 2000 – July 2000  
Vieux Thann (68), France

#### **Development of the company's website**

- Development of the site's architecture (HTML, CSS)
- Development of the online catalog and marketing tools (VRML)
- Setup of the company's email service (Novell Groupwise)

### **Société de Mécanique d'Irigny**

**Intern Developer**  
September 1998 – March 1999  
Irigny (69), France

#### **Development of monitoring tools for the Purchase Department**

- Database development (SQL)
- GUI Development (MS Access)
- Implementation of SAP import scripts (Access, SAP R3)

## Educational Background

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### **Software Engineer**

- 1997 -2000      **Université de Technologie de Belfort-Montbéliard (France)**  
Master in software engineering (computer graphics)
- 1995 - 1997      **Université Joseph Fourier, Valence (France)**  
Bachelor degree in Mathematics and Computer Science

## Languages

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### **Perfectly capable of working in an international environment**

- French                      Mother tongue
- English                     Fluent