

Xavier Michelon

Lead Software Engineer

Looking for a challenging position in a development team

Personal Information

Route d'Yverdon 4
CH-1028 Prévèrenge
Switzerland
michelon.ch

Born on September, 13th 1977 in Valence (France)
Single
French citizenship
Swiss C work permit valid until November 2022

Skills

Languages

Strong experience with a wide range of languages

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

Technical Management

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

Graphic Programming

1st Specialization

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

GUI Programming

2nd Specialization

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

Development Tools

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

Systems

Experience with the major operating systems

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

Professional Experience

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

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

Perfectly capable of working in an international environment

- French Mother tongue
- English Fluent