Xavier Michelon

Senior Software Engineer
Looking for a challenging position in a development team

Personal Information

Route d'Yverdon 4
CH-1028 Préverenges
michelon.ch

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

Professional Experience

KITRIS AG
Lead software engineer
January 2012 – April 2021
Préverenges (VD), Switzerland

Development of software for data acquisition and analysis in sports
- 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 software (C++, Qt, USB, Video)
- Design and development of server software (C++, Qt, SQL)

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 API for several generations of medical simulation 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)

Skills

Application Development	**Desktop Applications**	Main field of activity for 15 years
	System Programming	Extensive knowledge of the concepts and techniques
	Embedded Software	Experience with a wide range of platforms
	Graphic Programming	Advanced knowledge of 2D and 3D programming techniques
Languages	**C++ / C**	25 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
	MATLAB, Scilab	Mostly used for prototyping
	Other	Studied ASM, C#, Objective-C, Swift, Go, Scala, Lisp, Prolog
Development Tools	**IDE**	MS Visual Studio, CLion, Xcode, Eclipse
	Frameworks	Qt, MFC, Cocoa, wxWidgets, GTK, OpenGL
	Version Control	Git, Subversion, CVS
	Release Management	NSIS, Wise
	Life Cycle	Gitlab, Github
	Test / QA	Redmine, TestTrack
	Graphic Tools	Photoshop, Illustrator
Systems	**Windows**	Used as a primary platform for more than 20 years
	macOS	Excellent knowledge of the platform
	Unix / Linux	Experience with many Unix platforms (Linux, BSD, Solaris)
Technical Management	**Project Management**	Planning, setup, execution and monitoring of engineering projects
	ISO Certification	Track record of successful ISO 9001 & ISO 13485 certifications
	Technology Watching	Active watching of the software, electronics, and robotics fields

Miscellaneous

Beeftext beeftext.org	**Developer of an open source text substitution tool** C++ / Qt application for Windows

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