

Fabien Niñoles

Electronics/Computers Developer

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Studies

- Electrical Engineering (1994 - 1998), University of Sherbrooke.
- DESS in Computer Engineering (2002 - ...), École Polytechnique de Montréal.
- Natural Science (1992 - 1994), College Ahuntsic.

Knowledges

Programming Language

Known:

Bash, C/C++, Java, Perl, Python, Ruby, SQL, XML/
HTML/XSL.

Notions:

ARM/PIC Assembly, C#, Javascript, JSP, MatLab,
PHP, Ruby, Visual Basic (Script and Application).

Libraries

Known:

ANSI-C, Boost, libavcodec (FFMPEG), MainConcept
MPEG SDK, MFC/ATL/COM/Win32, Mxfilib, STL.

Notions:

Autotools, GNOME/GTK+/Glade, Java JNI, VCL,
Windows .NET, Windows Media Center, Windows
Scripting.

Programming Environment

Known:

Linux Embedded (ARM), Unix (Debian GNU/Linux and
CentOS), Windows XP/2000, Windows XP Embedded.

Notions:

FirecastOS, VxWorks, Windows CE.

Software

Known:

Apache Web Server, Ant/Nant, Eclipse, Emacs/Vi,
GCC/GDB/make, Mercurial/mq, MS Office, MS Visual
Studio (v.6, 2005), OpenOffice.org, Perforce, Request
Tracker 3, SQL-Ledger, Subversion/SVK, Trac.

Notions:

C-Sharp Develop, Dia, DDD, Eclipse, Glade, Gimp, git/
quilt, Matlab, Rational Rose Real-Time,

Languages

French: *fluent*
English: *functional*

Spanish: *basic notions*
Japanese: *basic notions*

Projects and Realisations

- Alpapem (Autumn 2003); Installation and maintenance of Windows and Debian GNU/Linux workstations.
- Debian GNU/Linux Project (From Autumn 1997); Volunteer Maintainer.
- Alternative-Linux and Linux-Québec (1999); Conferences about Debian and Linux.
- GULUS (Autumn 1998); Founder and President.
- Folle Course informatique, 3rd Edition (1997); Organisation.
- Folle Course informatique, 2nd Edition (1996); 1st position.
- Folle Course informatique, 1st Edition (1995); 2nd position.

Hobbies

- Arts (reading, poetry, music, danse, role playing game and boardgames).
- Outdoors hiking (backpack, bicycle, skiing, diving).
- Sports (jogging, swimming)

Work Experience

Maximum Throughput inc.

Senior Software Developer

Supervisor: Maher Khatib
Since september 2007

Work on award-winning professional digital video edition and post-production for the web softwares, on Linux and Java. Maintainer of the video formats and codecs, especially MPEG, MXF, H.264, DV and DNxHD

Environment:

- Linux (CentOS and Debian) and Windows, C/C++ (GCC 3.6, 4.2 and Visual Studio 2005), Emacs, Eclipse, Java (Sun JDK) and JNI, librairies Gnome/GTK, MainConcept Codecs SDK, ffmpeg, mxflib, Make, Ant, Subversion, Trac.

Solvision inc.

Software Developer

Supervisor: Stéphane Hamel
From august 2006 to september 2007

Wafer Bump Inspection Solutions development:

- Pre-aligner and controler integration
- Refactoring of the multi-pc communication module
- Visual Studio 2005 code migration
- Developer tools conception and maintenance

Environment:

- Windows 2000/XP, Visual C++ 6, Visual Studio 2005, Nant, Perforce, DOS, Perl and Ruby scripts.

Flipr Networks inc.

Consultant - Technical Direction

Supervisor: Joseph Martek
Since February 2004

Responsibilities:

- Development and deployment at client place of multimedia application, wireless networks and domestic audio-visual appliance.
- Network administration and technical support.
- Coordination and planification of research and development activities, production, purchases and quality control.
- Report redaction for R&D tax credits.
- Coop students supervision.
- Technical specialist for distributors and investors.

Operating Systems:

- Debian GNU/Linux, Windows XP Home Edition, Windows XP Media Center, Windows XP Embedded.

Langages and Libraries:

- C/C++, GTK, Python, PHP, C#, VBS, Javascript.

Applications and Technologies:

- Freevo, Firefox, Mambo, Microsoft Embedded Studio, C#-Develop, Microsoft Media Services, XMLTV, Snapstream Media Suite, FirecastOS, Request Tracker, MRTG, SNMP, Nagios, Faq-o-matic, SQL-Ledger, Subversion.

Acktomic inc.

Software specialist

Supervisor: François Mikus
From August 2003 to February 2004

Consulting in server and software installation for development team. Business development for the company.

Prodesol inc.

Software specialist

Supervisor: Renaud Pelletier
May 2003 to August 2003

Laser-based Visual Help for Manual Assembly, including servo-motors control, specifications analysis, design and coding. Development used Delphi with Microsoft Visio 2002 integration.

École Polytechnique de Montréal

Student

Supervisor: Michel Dagenais
From October 2002 to March 2003

Development of a distributed configuration library for Unix system tools and daemons, for usage in a Linux cluster.

Visuaide inc.

Developer - Hardware integration

Supervisor: Pierre Hamel
From February 2000 to May 2002

Work on electronics appliances for blinds as well as on new technologies to be adapted for the blind people market.

Projects:

- Development of the Tourist Vocal Guide CityGo.
- Maintenance of the Digital Book Reader VictorReader.
- Development of the Vocal GPS Guide for blinds Trekker.
- Support and formation on the intranet server and development tools.

Tasks:

- Installation and maintenance of the development server.
- Re-write of the home-made flash driver and boot loader.
- PIC integration with a battery level chip.
- Map Library and GPS module integration.

Technologies:

- Linux/ARM, GCC/GLibC, GPASM (PIC Assembler), MicroWindows, Telcontar Libraries (map engine), Windows CE, Dinkum STL/C++ Library, Eloquent (TTS), GPS Technology.

Beltron Technologies inc.

Test Engineer

Supervisor: Sébastien Fleury
From January 1999 to February 2000

Tests development for OC-192 analogical and digital cards for production.

Responsibilities:

- Integration to Nortel Networks Product Tracking System.
- Windows 95 Development including COM and HPIB technologies.
- Tests and calibrations tools developed in Pascal with Delphi 4.0, 1.0 and Borland Pascal 7.0, as well as Python scripts integrated with Delphi 4.0.

Also work as internal auditor ISO-9001.