

Software Engineer

- *Autonomous and rigorous*
- *Solid scientific background*
- *Versed in open source technologies*
- *Fast learner*
- *Interested in projects with an emphasis on design, quality and user experience*

WORK EXPERIENCE

Since July 2010	Canonical <i>telecommuting</i>
	Software engineer in the OEM Services division, products team. <ul style="list-style-type: none">• Providing customized images of Ubuntu to OEM customers• Bug reporting, triaging and fixing, forwarding bugs and patches upstream• Development of new applications to meet clients' design specifications <p><i>[Ubuntu, packaging, virtualization, Launchpad, Bazaar, C, C++, Python, Qt, QML, GTK+]</i></p>
Mar. 2008 – Feb. 2010 <i>2 years</i>	Fluendo Embedded <i>Barcelona, Spain</i>
	Core developer, QA manager and release manager for Moovida, a cross-platform and open-source media center. <ul style="list-style-type: none">• Architecture and development of the core of the application and content plugins, from basic building blocks to user interfaces• Bug reporting, triaging and fixing• Deployment and enforcement of quality processes, including thorough code and functional reviews, automated unit tests and manual UI tests, playback testing with an extensive test suite• Management of a full-time tester and a test laboratory including various hardware and software configurations and virtual machines• Release planning and management, both feature- and time-based• Technical entry point for customers and partners <p><i>[GNU/Linux, Windows, Python, GStreamer, Twisted, UI and UX, Launchpad, Bazaar, Parallels Desktop, VirtualBox, Ubuntu packaging]</i></p>
Oct. 2006 – Feb. 2008 <i>1½ years</i>	Amadeus <i>Sophia Antipolis, France</i>
	Software engineer, in charge of the backend that stores airline passenger bookings. <ul style="list-style-type: none">• Maintenance and development of the backend code for transactional storage/retrieval of structured booking records with high constraints on throughput, availability and reliability• Development and execution of optimized queries to the database for customers• Development and deployment of custom scripts to automate internal tasks <p><i>[GNU/Linux, C++, Python, Oracle, CVS, GNU toolchain]</i></p>

2004-2005	Diese Contractor for IIE's Junior Enterprise, Diese, specialised in consulting and software development for enterprises. <ul style="list-style-type: none"> • Interaction with the clients to help them define and agree on functional specifications • Development and deployment of custom web sites <i>[PHP, MySQL, XHTML, CSS, Javascript]</i>	<i>Evry, France</i>
2005 <i>3 months</i>	CNEDI Trainee at the software development division of the National Office for Family Allocations, in the Project Management team. <ul style="list-style-type: none"> • Architecture and development of a bridge application between two distinct project management applications • Custom database queries to optimize an existing project management application • Knowledge transfer on object oriented technologies to fellow developers <i>[UML, Java, XML, Oracle]</i>	<i>Caen, France</i>
2004 <i>3 months</i>	Valeo Trainee at the technical services of the Switches and Detection Systems division. <ul style="list-style-type: none"> • Development of an application to migrate data from a legacy application developed in-house to a process management framework • Development of various scripts to clean up and normalize malformed data <i>[VB, Tcl]</i>	<i>Caen, France</i>

EDUCATION	
2005 - 2006	MSc Computer Science (Research) at the University of Hull (UK) Thesis: Medical Image Segmentation Using Immersive Visualization Engineering degree at ENSIIE (France) ENSIIE is a postgraduate computer science engineering school recruiting on national competitive examination.
2003 - 2005	ENSIIE, computer science, robotics and virtual reality majors.
2001 - 2003	Higher education in mathematics and physics preparing for high-level competitive entrance to "grandes écoles". Equivalent to a BSc Mathematics and Physics .

LANGUAGES	
English	Fluent. Lived and studied in the UK, command of both spoken and academic English. TOEIC gold (975 out of 990, advanced general professional proficiency).
French	Mother tongue
Spanish	Fluent
Catalan	Good understanding

TECHNOLOGIES

Systems	GNU/Linux, Windows
Languages	Python, C++ (advanced), C, Java, PHP (good knowledge), sh, Javascript, Vala
Tools	GNU toolchain, Scons, Debian/Ubuntu packaging
VCS	Bazaar, Git, Mercurial, Subversion, CVS
Libraries	C++ STL, Boost
Frameworks	Twisted, Django, GStreamer
Graphics	OpenGL, GTK+, Qt, QML, pigment
Databases	PostgreSQL, MySQL, Oracle, SQLite
Virtualisation	Parallels Desktop, VirtualBox
Office	OpenOffice.org, LaTeX
Theory	Logic, Graph Theory, Optimisation, Operational Research

INTERESTS

Sports	Martial Arts including Kung-fu and Capoeira, climbing, snowboarding, wakeboarding, squash.
Leisure	Reading in French, English and Spanish, playing and listening to music.
Hacking	<p>Since I was 13 years old.</p> <p>Contribution to various free software projects, bug reporting and triaging, patches and localisation in French.</p> <p>Strong predilection for reasonably high-level languages and constructs.</p> <p>Personal projects:</p> <ul style="list-style-type: none">• pyexiv2, a Python binding to exiv2, the C++ library for read/write access to image metadata (http://tilloy.net/dev/pyexiv2/) [Python, C++]• python-bicing, a Python module that retrieves real-time information on the Bicing network in Barcelona (https://launchpad.net/python-bicing) [Python, KML] <p>Contributions to:</p> <ul style="list-style-type: none">• Bazaar Explorer: localisation• Epiphany: bug triaging, patches• Exiv2: bug reporting, patches, localisation• GLib: patches• GStreamer: bug reporting• GTK+: bug reporting• Launchpad: bug reporting, bug triaging• nautilus: bug reporting, patches• QBzr: localisation• Qt: bug reporting, patches• shared-mime-info: bug reporting, patches• software-center: bug reporting, bug triaging, patches• Ubuntu: bug reporting, bug triaging• WebKit: bug reporting, patches