

C/C++ developer

Competencies

AREAS OF EXPERTISE	AVIONIC / AUTOMOTIVE / HEALTH CARE INFOTAINMENT / NUCLEAR / TELECOM / REAL-TIME
ENVIRONMENT	ANDROID / LINUX / MAC OS / WINDOWS / VxWORKS
LANGUAGES	C / C++ / JAVA / PHP / PYTHON / RUBY / AJAX HTML 5/ CSS / JQUERY / ASSEMBLER / DELPHI PERL
PROCESSORS	INTEL / MOTOROLA 680X0 & POWERPC / ARM
LIBRARIES	QT / OPENGL / MFC / SDL BOOST / EIGEN / LIBPNG / XERCES / ZLIB
TOOLS	ECLIPSE / GCC / KDEVELOP / QT CREATOR TORNADO / VISUAL STUDIO / WORKBENCH
DATABASE	POSTGRESQL / MYSQL / SQLITE / ORACLE
METHODOLOGIES	CYCLE V / SCRUM / UML / XP
STANDARDS ET NORMS	AFDX / ARINC / CAN / TCP/IP
CONFIGURATION MANAGEMENT	GIT / GERRIT / JENKINS / SVN / CLEARCASE / SYNERGY / CVS
SOFTWARE	APACHE / DREAMWEAVER / FLASH / OFFICE PHOTOSHOP / POSTGIS

Diplomas

- **D.E.A. of macroeconomic and financial dynamics** 1994
- **Master of economic sciences** 1993
- **Second university degree in law** 1996

Languages

- **French** : mother tongue
- **English** : fluent
- **German** : scholar



Eric LIBERT
Senior developer

Tél. +33 (0)6 48 16 37 63
Email : argcoding@gmail.com

Projects

CONTINENTAL - RAMBOUILLET

2014-2015

C++/Qt/OpenGL senior developer (Since September)

Infotainment applications' developer

- Development & tests of the Rear view camera module
- Development & tests of the Park assist module
- Standard CAN recordings
- Unit tests' development
- Prototyping Bluetooth & iAP protocols
- Code review & audit of existing modules

O.S	LINUX EMBEDDED SOUS ARM / GENIVI / LINUX / WINDOWS
LANGUAGES	C++ / QT / D-BUS / GLIB / OPENGL / DLT / SQLITE
TOOLS	ECLIPSE / SYNERGY / RHAPSODY / DOORS / CANALYZER / BULLEYE / KLOCWORK / BLUETOOTH / IAP

ALDEBARAN ROBOTICS - PARIS XIV

2014

C++/Qt/OpenGL senior developer (4 months)

Development of a mechatronic data analysis tool

- Data importation inside a SQLite database
- 2D & 3D data visualization using OpenGL & MathGL
- Plugins' creation to interpolate mechatronic data
- Customized widgets' development

O.S	LINUX / WINDOWS / MAC O.S.
LANGUAGES	C++ / QT / OPENGL / SQLITE / MATHGL
TOOLS	CMAKE / QIBUILD / GIT / GERRIT / JENKINS



INGENICO - PARIS XV

2014

C++ senior developer (3 months)

Development of electronic banking codecs

- Analysis of EPAS data related to the new transactions' process
- Alignment of the SEPA-FAST protocol data with the EPAS rules
- Updating the existing C++ Framework
- Development of the data conversion codecs

O.S	WINDOWS
LANGUAGES	C++
TOOLS	SVN / VISUAL STUDIO

EOS IMAGING - PARIS XI

2013

C++ senior developer (4 months)

Development of a 3D Viewer

- Medical 3D Viewer in OpenGL
- Proprietary files exporter
- STL File loader
- OpenGL screenshot in PNG with libpng & TGA
- Linear algebra using Eigen
- Writing Architecture & Code Design
- Development in Visual C++/GCC

O.S.	WINDOWS
LANGUAGES	C++ / EIGEN / LIBPNG / OPENGL / ZLIB
TOOLS	CODEBLOCKS / GCC / MANTIS / SVN / VISUAL STUDIO



INTERCONTROLE (AREVA) - CHALON SUR SAONE

2013

C++ senior developer (6 months)

Development & debugging of nuclear applications

- Industrial C++ development (Boost/Visual Studio 2012)
- Unit tests' development in C++/Boost
- git integration & code review with gerrit
- Writing git / TortoiseGit training support
- Writing Architecture & Code Design.
- Development of Crypto++ / zLib / Xerces library to manage proprietary formatted archives

O.S.	WINDOWS
LANGUAGES	C++ / BOOST / XERCES / ZLIB
TOOLS	VISUAL STUDIO / CMAKE / GIT / GERRIT

CANBERRA (AREVA) - LOCHES

2012

C++/Java senior developer (8 Months)

Development & debugging of nuclear applications

- Embedded Windows CE applications to measure nuclear real-time data (C++/MFC/Windows CE/ARM)
- Plug-ins' development to integrate new probes inside a C++/MFC library (C++/MFC/Windows)
- Dummy model of a Windows CE6 system image on ARM processor
- Migration support under Android (Java/C++) of an existing DLL in C++/MFC
- Dummy model of two applications for feasibility testing : an emulator (Windows/C++/Qt) to simulate a BeagleBoard (Linux/ARM/C/C++) & a nuclear treatment data (Windows/C++/Qt/OpenCV) via USB2IP

HARDWARE	NUCLEAR'S DETECTORS / FITPIX / BEAGLEBOARD
O.S.	WINDOWS / ANDROID / WINDOWS CE / LINUX (ARM)
LANGUAGES	C++ / MFC / GCC / JAVA / QT
TOOLS	CODEBLOCKS / VISUAL STUDIO / ECLIPSE / OPENCV / SVN / USB2IP



INTEL - TOULOUSE

2011

Telecom integrator (6 months)

Update & improve the continuous integration process in a mobile environment.

- Validation & integration of the C++/Qt/Python (Windows/Linux) & Java (Android) code
- Homogenization of the automatic tests process
- Setup the continuous integration process

HARDWARE	MOBILE PHONE ON ANDROID
O.S.	WINDOWS / LINUX / ANDROID
LANGUAGES	C++ / QT / PYTHON / JAVA
TOOLS	ECLIPSE / BUGZILLA / GIT / JENKINS / VISUAL STUDIO / PROPRIETARY TOOLS

VECTRA - BUZANÇAIS

2011

C++/Qt/Delphi Senior developer (3 months)

Specify and fix the revision of road analysis' applications.

- PgSQL database realization from scratch (Schematization, PL/SQL)
- Development of import/export data modules (C++/Qt)
- Development of road analysis software which manage longitudinal profile, GPS and light intensity data.
- Update of an existing Delphi software to debug the speed/temperature on an audio signals.

Implementation of an Intranet under Apache, a SVN server, BugZilla & Doxygen

HARDWARE	PROPRIETARY DETECTORS
O.S.	WINDOWS / LINUX / DOS
LANGUAGES	C++ / QT / DELPHI
TOOLS	SVN / BUGZILLA / DOXYGEN / ECLIPSE / POSTGRESQL



Eric LIBERT
Senior developer

Tél. +33 (0)6 48 16 37 63
Email : argcoding@gmail.com

MAGNETI MARELLI - CHÂTELLERAULT

2010-2011

C++/VxWorks/IHM/OpenGL/Qt Integrator (10 months)

Integrator of continuous openGL/Qt/VxWorks modules, & framework debugging.

- Graphic engine integration (OpenGL) on two GPS projects (RNEG et SMEG)
- Development of stress software to evaluate the target performance (C++/Qt on VxWorks)
- VxWorks tools development (screenshot, OpenGL glyph, memory lack)
- TCL scripts realization to improve tasks integration
- Graphic engine debugging and update
- Integration of tasks coming from Italia, Canada & Germany (Synergy)
- Graphic optimization & redesign of the graphics' elements under Photoshop (DDS)
- Technical environment : GCC / Qt / VxWorks / TCL / Tornado / Workbench / Insight / GIT / Synergy / Photoshop

HARDWARE	GPS UNDER POWERPC
O.S.	WINDOWS / LINUX / VxWORKS
LANGUAGES	C / C++ / QT / OPENGL (GLSL) / TCL/TK
TOOLS	TORNADO / WORKBENCH / INSIGHT / GIT / SYNERGY / ECLIPSE / PHOTOSHOP



C++/ MFC Senior developer (16 months)

***Managing & programming the C++ new bench tests for the future
Inertial Reference System.***

- HMI development of three IESI/ADIRU tests' software (C++/MFC)
- Real-time development on VxWorks (PPC603).
- Team & project management (SVN, Doxygen).
- HMI architecture restructuration (Debugging / libraries implementation / Interface homogenization).
- Integration & test on ARINC / AFDX / BOOLEEAN / OAT / SPI cars and also on avionic equipments likes alimentation, tables, steamroom, gyroscopes & accelerometers.
- Users' support
- Python scripting to automate the tests
- Technical documentation writing
- Validation of team source-codes
- Development of a scripting tools (Scenarios) to automate production process
- Certification of gyroscopic, thermal, acceleration data
- Relations between the customer, the project team and the hardware team

HARDWARE	VME / INERTIAL REFERENCE SYSTEM
O.S.	VXWORKS / WINDOWS / LINUX
LANGUAGES	C / C++ / MFC / OPENGL
TOOLS	VISUAL STUDIO / TORNADO / WORKBENCH / SVN / DOXYGEN



Eric LIBERT
Senior developer

Tél. +33 (0)6 48 16 37 63
Email : argcoding@gmail.com

SOCAF - PARIS

2006-2008

Project Leader, C++/Qt Senior developer (16 months)

- Project manager: development of a real-estate application in C++/Qt.
- Redesign of the IT services (software & hardware)

TROLLTECH – FRANCE/ESPAGNE

2006-2008

C++/Qt Trainer

- C++/Qt's trainer for Trolltech's customers
- Trolltech's Qt QuickStarts' presenter

METTLER TOLEDO - PARIS

2006

C/C++/Qt Senior developer (3 months)

- Windows CE: development of a C++ application to transfer the real-time transactions from a commercial balance to the database server.
- Development of a server application which update an embedded Sybase database and creation of a client to inform the user about the progression.

ANORIA - FRANCE

2004-2006

Business software's Trainer

- OpenOffice, Thunderbird, Firefox trainer

MAG EDITIQUE - PARIS

2004

Project Leader, C++/Qt Senior developer (6 months)

- C++/Qt developer: development of a real-time application using a Qt IHM, which communicates to an automaton in multi-tasking on RS232 & TCP/IP ports.
- Creation of an emulator to check if the response time of the RS232 & TCP/IP processes is always 10ms. Development was realized under Visual C++ using the XP methodology and ported to Linux GCC.



Eric LIBERT
Senior developer

Tél. +33 (0)6 48 16 37 63
Email : argcoding@gmail.com

ISSN (UNESCO) - PARIS

2002-2004

C++ Senior developer (24 months)

- IT manager assistant, users support and training
- Network administration (Windows 2000, Linux: PostgreSQL, PostFix)
- Applications development in an bibliographic environment under Windows 2000 & Linux using PostgreSQL, Delphi, Borland C++, Qt, GCC, PHP
- Realization of standard procedures for network administration and software

GERLING - PARIS

1999-2002

IT Manager (30 months)

- Coordinator of the IT relations near the head office in Germany
- Technical committees' member
- Management of the budget and the data-processing resources (3 internal people)
- Technical reorganization of the hardware and software environment
- Project management (Voice-IP, VPN-IP, SAP, Panagon, Citrix, long-term hiring)
- Network administration (Windows NT, Novell, Linux, Exchange Server)
- Insurance applications development on Windows 98/NT, Oracle 7, Windev, Visual C++, Visual Basic, Delphi, Java
- Realization of standard procedures & Intranet creation

WILSHIRE - PARIS

1998-1999

Project Leader/Programmer (9 months)

- Optimization of the financial applications under UNIX, X Window and Windows NT within a team of three programmers based In Portland (Oregon, the USA)
- Resolution of the communication problems (languages, accounting system) between the head office in Portland and the subsidiary European companies (Paris - London - Dublin)
- Management of the Parisian and London support team (SCO Unix, Windows NT, Novell, Exchange Server, and SQL Server)

FREELANCE - NICE

1991-1998

- Microsoft Office, Microsoft Windows, Adobe & Lotus instructor
- Training CD-ROM, financial & commercial databases, Intranet web development, graphical components in assembler (68000) and C++