

Eric C. Lambart, Software Engineer

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OBJECTIVE: Stimulating, *challenging* employment as a software engineer for an organization that values experience, creativity and a quick yet careful mind. With a lifelong concern for the environment, work in the "green" technology or energy fields would be particularly attractive.

Languages

- Java, JSP
- SQL (Oracle, MySQL)
- C
- PHP
- (D)HTML, XML, CSS, XLS
- Python
- C++
- Pascal, Delphi
- PERL
- EsiObjects

Project Highlights

- Designed and created a scriptable/pluggable data exchange automation system.
- Embedded user interface and media framework for an advanced plasma video/television system.
- Extension to the PHP language providing connectivity to EsiObjects database servers.
- Created an IDE for the EsiObjects language.
- Custom IDE for FPGAs.
- User interface and e-commerce system for sports-oriented web site.

Some APIs Used

- Swing / JFC, AWT
- JDBC
- Hibernate
- Log4J
- GNOME
- glib
- glibc
- gtk / gtk2
- PHP (4, 5) Extension API
- POSIX

Development Platforms

- Linux/GNU
- UNIX
- MS Windows 95 - XP
- MS DOS 2.x - 6.x

PRINCIPAL SOFTWARE DEVELOPMENT SKILLS:

Extensive experience developing and designing applications and user interfaces (on Java, Linux and web platforms), APIs, serial and TCP/IP communications systems. Firm grasp of object-oriented concepts and design. Can port code between various platforms, debug and refactor complex code written by others. I am very adaptable and write carefully-designed, readable, *well-commented* code.

OTHER ASSETS:

Strong work ethic. Work well under pressure. Very quick learner yet patient teacher. Excellent English writing and editing skills. Good verbal communication skills (with individuals as well as groups). Can read, write and speak Italian and German fluently.

RECENT EMPLOYMENT AND PROJECT DETAILS:

- **Aug. 2006 - Dec. 2008:** Sr. Software Engineer, [Comotiv Systems](#) (Portland, Oregon). As a principal UI Engineer for a small startup, helped architect, design and create a complex, multi-threaded remote collaboration tool that supports cross-platform, multi-person video- and audio-conferencing and file sharing, using agile development methods (Java, Swing, JMF, Hibernate, Webstart).
- **Oct. 2005 - Apr. 2006:** Software Engineer/Architect, [Blue Cross/Blue Shield of Minnesota](#). Lead Engineer and Architect for the SelectAccount Operations Controller, a flexible, scriptable framework to allow automated exchange of data with various business partners. Wrote numerous plugins for the framework to facilitate exchange of data from BC/BS' Oracle and FoxPro databases with specific partners. Designed and developed an ORM solution to facilitate rapid development of Java code to communicate with FoxPro databases. Also created a GUI to allow manual/unscheduled data exchange operations. (Java, SQL, JDBC, Hibernate, XML, Log4J, FoxPro, Swing).
- **Jan. - Sep. 2005:** Software Engineer, [Help/Systems](#) (Minnesota). Developed complex user interfaces for the market leader in IBM iSeries operations automation and monitoring software (Java, Swing).
- **Oct. 2002 - Dec. 2004:** Software Engineer, [TriAxial Data Systems](#) (California). Primary developer of a flexible data management application framework (UI: PHP/DHTML; back end: EsiObjects [object-oriented MUMPS]). As part of the project, created an extension to the PHP language which allows objects on a remote database server to be accessed natively within PHP (using C, TCP/IP, PHP4, PHP5). Also identified and *fixed* several bugs within the official EsiObjects and PHP language implementations.

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RESUME OF ERIC LAMBART, SOFTWARE ENGINEER

RECENT EMPLOYMENT AND PROJECT DETAILS, *continued*:

- **Feb. 2001 - Oct. 2004:** Software Engineer, [Giavaneers](#) (California)
Worked with a team of developers on various software projects under contract to Giavaneers' clients:
 - Ported portions of a popular anti-virus system from Windows to Linux (UI: Java, Swing, C, C++ JNI, GTK2; back end: C++, C).
 - Developed portions of an Integrated Development Environment (IDE) for a leading FPGA manufacturer (Java, Swing, AWT).
 - Developed portions of a UI and application framework for digital TV (Java, Swing, XML) as an embedded system built on a Linux-based OS. Primary engineer on email and speech synthesis components (Java, C, JNI, Festival).
 - Resolved numerous bugs in a complex, client-developed enterprise systems security framework (Java).
- **May - Jul. 2004:** Personal Project: [Geode](#)
Developed an IDE to allow development and debugging of software in the EsiObjects language on Linux-based platforms (previously impossible without a Windows-only IDE). *Project goals:* Facilitate work for a paying client while improving Linux GUI development skills (using C, GTK2, EsiObjects TCP/IP protocol). *Result:* Success! Within a month I was regularly using Geode for my work, and soon released a stable, alpha version of Geode to the community under the GPL (open source license). This project is no longer maintained as I no longer have any use for it. For source code and a screen shot, see <http://geode.sourceforge.net>
- **Feb. - Nov. 2000:** Software Engineer, [macroplay.com](#) (California).
Principal UI engineer at a sports-oriented internet startup. Developed the front-end for several related web applications, including an e-commerce system (JSP, JAVA, DHTML, Javascript, CSS), and did some work on the back-end database system (EJB, SQL). Finished all assigned projects before leaving (voluntarily) to pursue more challenging career opportunities in another city.
- **Jan. - Nov. 1999:** Various independent contracting work *in Italy*:
 - *@all.it:* Internet development and programming for an ISP.
 - *All'Informatica Shop:* Technical assistance for computer retail store.
 - *Digivision:* Soft- and hardware demonstration and user training (in Italian and English) of PC-based digital video editing systems.
 - *Acquarelli Video:* Digital video production assistance, web design.

EARLY SOFTWARE DEVELOPMENT EXPERIENCE:

- **1987.** Wrote quality control software under contract for [Gillette Papermate](#) (in Pascal, using serial communication with a *Sartorius* precision balance).
- **1986 - 1990.** As owner/founder of Cavan Int'l, designed LABBS, a computer bulletin board system with early support for email, public and private discussion forums, binary file transfer protocols, and online games, which was used to operate eight systems across the USA (Pascal). Developed and sold AOLA, a simple DOS-based ANSI character graphics and screen editor for use by BBS operators and software developers (Pascal). Also developed and distributed some other small utility programs (Pascal, x86 Assembly Language).

FORMAL EDUCATION:

- B.S. degree in Chemistry, with multiple honors, University of California at Santa Cruz (1995).
- A.A. Degree, Computer Programming, with honors (age 15), Santa Monica College (1987).

HOBBIES/INTERESTS:

- Antique motorcycle repair and restoration.
- Home restoration and remodeling (first-time homeowner).
- Woodworking
- Creative writing

REFERENCES:

Excellent personal and employment references available upon request.