

# Jim Hyslop

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## PROFILE

A creative, results-oriented software professional with over 17 years experience in financial services, communications, 3D graphics and television broadcast industries. Strong focus on high quality, robust software that is user-friendly.

## KEY QUALIFICATIONS

- Expert C++ and C programmer
- Experienced at embedded C and C++ development
- Experienced team lead and software project leader
- Co-authored a monthly column for the *C/C++ Users Journal* from 2000 to July, 2005
- Co-author of forthcoming book, working title “Speaking about C++”, to be published by Addison-Wesley in 2008
- Known for writing code that is easily understandable by other programmers
- Experienced at Relational database design RDBMS (ODBC, SQL)
- Solid understanding of version management (CVS) and configuration management
- Active maintainer of the GNU CVS project
- Familiar with encryption protocols
- Proficient at developing and applying unit tests to improve software quality
- Familiar with agile processes including TDD, Scrum and eXtreme Programming
- Able to lead software projects through entire life cycle
- Enjoys mentoring and coaching others to improve overall programming knowledge

## CAREER EXPERIENCE (HIGHLIGHTS)

### **View22 Technology Ltd.**

### **Sr. Software Developer**

*View22 Technology is a leader in 3D visualization. They provide partner solutions for a wide variety of costumers, in a wide range of industries and clients.*

August, 2006 to July, 2007

- Maintained and enhanced the next release of the company’s flagship product.
  - Implemented interface to integrate View22’s 3D software in a third party application (Punch! Software’s “Home Design”)
  - Implemented Firefox plugin functionality to complement existing IE plugin
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- Updated, upgraded and administered version management system (CVSNT)
- Improved work and release processes and automated build system
- Introduced unit testing procedures

**Leitch Technology International Inc.**

**Sr. Software Designer**

*Leitch (now a division of Harris) is an industry-leading supplier of video equipment to television broadcasters*

1997 to April, 2005

- Successfully led several software projects through full product cycle, including:
  - enhancements to a control panel allowing it to control more devices, directly resulting in a \$1 million sale to one customer; (embedded C)
  - a new Windows application that displayed a highly-accurate clock, resulting in a popular product that contributed significantly to the corporate presence at trade shows and on customers' PCs. Successfully applied several Agile development principles, including TDD (C++)
  - an upgrade to an existing Windows-based control and configuration application ("Navigator"), with many new features and enhancements, resulting in increased sales of the product (C++, ODBC)
  - developing and maintaining a Windows application that allowed customers to configure and upgrade a hardware product line, resulting in fewer visits to customer sites by field service personnel (C++, ODBC)
- Designed and implemented key user features within various software products, including:
  - embed ActiveX objects in "Navigator" (C++, Win32);
  - apply logical conditions (AND, OR) to rules processing, resulting in improved useability and flexibility of the program.
- Architected key components within software products (both Win32 and embedded software), including:
  - A flexible and extendable framework for applying logical conditions to rules, making the program much easier to enhance (C++, Win32);
  - Fail-safe bootstrap procedures for hardware, allowing full recovery without requiring on-site service or returning the hardware to the factory (C, vxWorks);
  - Protocols to allow different systems to communicate (C and C++, Win32 and vxWorks).
- Administered and maintained CVS repository consisting of over 35GB of data, with over a hundred users
  - developed and maintained support utilities (GNU C, Solaris)
  - contributed patches and bug fixes to CVS program, leading to position as an active maintainer of the GNU CVS project ([www.cvshome.org](http://www.cvshome.org))
- Implemented and improved software release procedures, resulting in faster, error-free time-to-market for software products.

**Kirsch & Partners Ltd./Callscape Canada Inc.**

**Sr. Programmer/Analyst**

1996-1997

Team member on a new product to provide long-distance fax services using the Internet, with successful test deployments in several different cities across Canada.

- Developed the communications software responsible for transmitting files over Internet (TCP/IP sockets programming) using established protocols (SMTP, POP3, FTP) and custom, secure protocols (C++, Win32).

- Designed and implemented data security for transmission over the Internet, using well-known encryption routines (RSA - PKCS, RC5, X.509 certificate structures) and following industry-standard implementations. Security concerns included encryption of the customer files, the authentication protocols, and the certificate management structure. Additional security was provided using encryption hardware (Fortezza crypto cards).
- Assisted and mentored junior members of the team.

**Toronto-Dominion Bank**

**Programmer/Analyst; Systems Analyst**

1992-1996 (contract and full-time permanent)

Developed, documented and maintained Derivatives Trading reporting system, and related utilities and auxiliary programs. Supported and trained end-users in the system. Development duties included gathering user requirements, preparing specifications for implementation, projecting development time required, and balancing priorities of new work and support items.

Platforms, technologies and languages used: C, C++, Btrieve, OS/2, DOS, Windows

**Wellington Insurance**

**Programmer/Analyst**

1991-1992 (contract)

Designed, developed and implemented a database application using Paradox PAL v3.5. The system tracked and updated commercial fleet automobile policy information, and automatically calculated policy premiums.

**AFFILIATIONS AND ACTIVITIES**

- Full Member, IEEE
- Member of ACCU (Association of C and C++ Users)
- Maintainer of GNU CVS project

**EDUCATION AND PROFESSIONAL DEVELOPMENT**

**Computer Studies Certificate**, Centennial College of Applied Arts and Technology, Scarborough, Ontario, 1992 (completion of "Microcomputers In Business" courses; certificate pending).

**Honours B.A.**, McMaster University, Hamilton, Ontario, 1984

**Technical Theatre Diploma**, Niagara College of Applied Arts and Technology, Welland, Ontario, 1986.

**Ontario Joint Health and Safety Certification**, Part 1 and Part 2, 2000