

# Guillaume Couture-Levesque

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## Education

- Carleton University, Ottawa ON 2003 - 2008
  - Bachelor of Computer Science Highest Honors, Co-op Option
  - Software Engineering Stream
  - Earned a \$16,000 Scholarship
  - CGPA: 10.0/12.0 (A-)

## Availability

- Available with 2 weeks notice
- Have NATO Secret Security Clearance

## Work Experience

- Interfaceware, Toronto ON May 2007 – Present
  - Junior Software Developer**
    - Installing virtualized two-node Oracle 10g cluster from scratch
    - Programming in C++ across several different operating systems
    - Ensuring health-care level software reliability
- General Dynamics Canada, Ottawa ON May – August 2007
  - Software Engineer, Co-op**
    - Designing applications to work in a distributed computing environment
    - Working with industry standard Vega Prime and GL Studio
    - Using C++ and MFC to construct networked Windows applications
- Curtiss Wright Inc., Ottawa ON January – April 2007
  - Programmer, Co-op**
    - Modifying existing code to work on new hardware
    - Programming at the firmware and boot loader level
    - Learning complex embedded systems
- Lumenera Inc., Ottawa ON May – August 2006
  - Applications Engineer, Co-op**
    - Developing an application driver for a digital camera using MATLAB
    - Creating a suite of programs for testing digital camera characteristics based off of a standards document.
    - Using C++ and the Win32 libraries to create Windows applications
- Adobe System Inc., Ottawa ON September – December 2005
  - Quality Assurance, Co-op**
    - Ensuring the quality of printed material
    - Programming a corporate intranet web site in JSP and XML.
- Ross Video, Ottawa ON May – August 2005
  - Programmer, Co-op**
    - Programming in C across 3 different processors
    - Programming in Kernel mode in a custom Linux distribution

- MGC Electronics, Ottawa ON

January 2003 – July 2006

#### **Co-Owner**

- Building and maintaining the web site updating system
- Building computers of varying degrees of complexity
- Consulting with customers about the components and answering any questions that arise

#### **Work-Related Experience**

- Wrote self-balancing distributed ray tracer for honors project
  - Program written in Java, using TCP sockets to communicate
  - Used dynamic work balancing approach to ensure optimal work distribution
- Wrote a Windows Network Firewall Driver for Operating Systems class
  - Used the Windows DDK and Platform SDK together in a single project
  - Driver could communicate with firewall application for logging
- Created two text mode demos for the 2004 and 2005 Text Mode Demo Competitions
  - Used both rasterization and raytracing display systems written from scratch
  - 2005 Entry won 5<sup>th</sup> place overall
  - Written entirely in C++ with some x86 assembly where needed
- Created an optimizing compiler for Compiler Construction class
  - Included code-flow analysis, constant folding, and dead code removal

#### **Skills Profile**

- Computer Skills
  - Competent in Microsoft Office 97 and up, and Open Office.org
  - Programming knowledge in C/C++/C#, Java, BASIC, x86 ASM, PowerPC ASM, Jasmin, Perl, JSP, XML, XHTML, CSS, SQL, Scheme, and Prolog
  - Working knowledge of Microsoft Windows, DOS, MacOS, OSX, ProDOS, Linux, Solaris, VxWorks, AIX, HP-UX
  - Experience with Eclipse, Microsoft Visual Studio, MATLAB, Codewarrior, DrScheme, and IBM Rational Rose
  - Database experience Oracle RAC, Oracle 10gR2, MySQL, and SQLServer
  - Experience with embedded systems, computer vision, distributed systems, computer graphics, windows programming, web development, and databases.
- Fluently bilingual written and oral communication
- Demonstrates resourcefulness and strong work ethic through the creation of an independent co-owned company.
- Creative and analytical thinking abilities, able to multitask and handle varied assignments
- Ability to work either independently or in a team situation, and in a workplace environment

#### **Extra Curricular Activities**

- Took part in a charity event for fixing computers two years in a row
- On the 2008 Carleton University CS Games teams, which got 4<sup>th</sup> place overall, and 1<sup>st</sup> place in extreme programming and web development
- Enjoy snowboarding, origami, paper craft, and rhythm-based video games