

ANDREW BIRCHALL

4A Honours Computer Engineering
University of Waterloo ID# 20238410

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Permanent Address

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QUALIFICATIONS AND SKILLS

- o Extensive experience with driver and application level C/C++
- o Industry development experience with highly synchronized real-time embedded systems
- o Industry experience designing web applications using PHP, ASP.Net, C#/VB .NET, AJAX
- o Design of relational database models using various SQL RDBMSs
- o Currently pursuing Blackberry and iPhone development
- o Currently designing an augmented reality system for inter-mobile-device collaboration
- o Programmed self-designed hardware projects using PIC microcontrollers/display systems
- o Can adapt to any development environment, but prefer using Bash/Tcl on Unix based OSs
- o Experience with basic compiler techniques using Lex/Yacc/Flex/Bison
- o Working knowledge of ClearCase, Git, SVN and SourceSafe version control systems

EDUCATION

Candidate for a Bachelor of Applied Science

Sept 2006 - April 2011

Honours Computer Engineering, University of Waterloo

Current cumulative grade point average of 84% and within the 90th percentile of class rankings

Relevant Courses: Real-time Operating Systems, Software Design & Architectures, Digital Computers, Data Structures & Algorithms, Applied Artificial Intelligence, Networks & Security

EXPERIENCE

Sandvine Incorporated, Waterloo, Ontario

Jan-April 2009, Aug-Dec 2009

Firmware Engineering Developer

- o Designed real-time embedded software for custom hardware platforms running FreeBSD
- o Utilized exceptional programming problem solving skills to develop driver software in C/C++ for high performance networking systems
- o Worked in a multi-team project environment to guide projects through their entire life cycles

BlueSun Administrative Solutions, Burlington, Ontario

Sept-Dec 2007, May-Aug 2008

Developer and Project Coordinator

- o Liaised with client representatives to design web-based policy advisory systems in VB.NET, ASP.NET, JavaScript and SQL Server
- o Demonstrated leadership as a project coordinator
- o Designed, constructed and maintained relational databases to support product requirements

Brain Injury Services of Hamilton, Hamilton, Ontario

Jan-April 2007

Information Systems Technician

- o Demonstrated abilities by designing and managing internal web systems and infrastructure

ACOMPLISHMENTS AND AWARDS

Recipient of a 6-year community service award from the Canadian Cancer Society

Recipient of multiple scholarships for academic excellence and community involvement including: the Bernie Roehl Award, the Russel Tidbal Scholarship, the Eastern Synod Scholarship and the University of Waterloo Presidents Scholarship

Active member of the Theta Psi Chapter of the Sigma Chi Fraternity