

MATTHEW BUDD

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Engineering Co-op Program
University of Alberta

EDUCATION

- University of Alberta, Computer Engineering, B.Sc. (Cooperative program), 2002
 - Cumulative Grade Point Average: 8.4 / 9.0
 - Awarded J Graham Dale Software Design Scholarship, 2000
 - Achieved First Class Standing in Engineering, 1996 - 2002
 - Awarded Bechtel Canada Continuance Scholarship, 1997
 - Awarded Dr. F. P. Galbraith Entrance Scholarship, 1996
- Morinville Community High School, 1996
 - Valedictorian of Graduating Class, 1996
 - Alexander Rutherford Scholarship, 1994 - 1996

WORK EXPERIENCE

MADENTEC LTD., Edmonton, AB

Sep 2003 – Present

Software Engineer

Designed and developed new projects in C# and Objective-C

- Worked on developing software used to allow users with severe physical disabilities to access the computer without use of the keyboard or mouse
- Designed and created a Content Editor that saved to XML using C# and GDI+
- Supported and updated existing software that runs on the Windows platform using C++/C and MFC
- Created a Windows service to communicate with a proprietary USB HID device
- Completely redesigned the Windows software and implemented it on Mac OS X using Objective-C and Cocoa
- Attended two Apple Developer Conferences on the Cocoa Framework and advanced programming techniques for Mac OS X
- Implemented version control (Subversion), mail system (postfix, cyrus, mailman), and web site (apache) on an OS X server

SELF EMPLOYMENT, Edmonton, AB

Feb – Aug 2003

Explored self employment opportunities using Microsoft's .NET framework

- Designed first-stage prototype for tracking Hemodialysis information in hospitals
- Utilized a four-tier design: Windows and Web GUIs written in C# and ASP.NET, accessing business objects in C#, which connected to MySQL and SQL-Server databases through a independent Data Access Framework developed in C#
- Defined process standards which included coding standards, version control (Visual SourceSafe), and the use of automated unit testing (NUnit for .NET)
- Attended technical seminars on the use of the .NET framework for development of Web and Mobile applications using XML Web Services

CYBERNIUS MEDICAL LTD., St. Albert, AB

May 2000 – Feb 2003

Programmer Analyst

Developed and supported a cross-platform suite in OpenROAD and C/C++

- Worked on programming software used for tracking Renal Failure and Hemodialysis information for hospitals and clinics throughout North America and Europe
- Front end Windows GUI programmed in OpenROAD is supported by backend Ingres databases on either NT/2000 or SCO-Unix
- Initiated use of Visual Basic (stand alone) and VBA (Excel) as development tools
- Assisted in the C/C++ development and testing of a Bedside application to run on ASCII terminals
- Completely redesigned and implemented the first true object-oriented component into the CyberREN product, used to record patient consultations with external physicians. Developed component from design and implementation through to unit and module testing.
- Helped develop an open-source unit testing framework called ORUnit, based off JUnit which is the framework used for Java (www.junit.org)

NEWSPAPER TECHNOLOGIES INC., Calgary, AB

Jan – Aug 1999

Software Engineer

Worked supporting and developing a suite of Windows based database products in VB5/6

- Worked on developing a suite of software used in the newspaper industry to help distribute papers and keep track of subscribers
- A suite of 8 different applications whose Visual Basic front-end ran against MS SQL Server, Oracle, or Sybase back-end
- Traveled to Ft. Worth, Texas to help one of our clients “go-live” with our product
- Attended technical training put on for the company for such things as Collection Classes and IIS/ASP application development

COMPUTER EXPERIENCE

- Skilled with Windows 9x/NT/2000/XP, Unix, DOS, Mac OS9, and Mac OS X
- Able to program in C#, Objective-C (Mac), Visual Basic, ASP, C, C++, and Java
- Thorough knowledge of SQL with experience using MySQL, MS SQL Server, Oracle, Ingres, and Sybase databases
- Proficient with Word, Excel, Access, Photoshop, and other productivity utilities
- Familiar with assembly language, VHDL, and low-level hardware programming
- Knowledgeable in both digital and analogue circuit design
- Develop computer games with DirectX using Visual Basic or VC++
- Created and maintain the following websites using a combination of ASP.NET, JavaScript, classic ASP, and static HTML:
 - www.dipolesolutions.com
 - www.stalbertbadmintonclub.com