

Bart Robinson

www.bartrobinson.com

149 S. Silverwood Way
Eagle, ID 83616
(208) 639-2278
bart@bartrobinson.com

Technical Skills

Languages

- Proficient in: C/C++
- Familiar with: C#, Haskell, HTML/CSS, Java, JavaScript, Lisp/Scheme, ML, Pascal, Perl, PHP, Python, R, SQL, Visual Basic, XML

Software & Technologies

- Platforms: Microsoft Windows, Ubuntu & Red Hat Linux
- IDEs: Eclipse, Microsoft Visual Studio, PyCharm
- Databases: Microsoft SQL Server, MongoDB, MySQL, SQLite
- Libraries/APIs/protocols: ASP.NET, Boost, COM, ImageMagick, MFC, .NET Framework, QuickBooks SDK, Sockets, Windows API
- Development Tools: Doxygen, Mercurial, SourceSafe, Subversion, Trac, VirtualBox, VMWare
- Other: Adobe Creative Suite, ArcGIS, Cygwin, FrontlineSMS, GIMP, ImageJ, Joomla, Matlab, WordPress

Experience

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| Aptina Imaging
<i>Boise, ID</i> | Senior Software Engineer | Apr. 2012 – Present |
| <ul style="list-style-type: none">• Developed high-throughput distributed testing system for CMOS imager manufacturing written primarily in Python. | | |
| Southern Trelawny Environmental Agency
<i>Albert Town, Jamaica</i> | Technical Advisor,
Videographer | Dec. 2010 – Apr. 2012 |
| <ul style="list-style-type: none">• Provided networking, GIS, and other technical assistance to conservation NGO.• Produced, directed, filmed, and edited the documentary <i>Cockpit Country: The Green Heart of Jamaica</i> (cockpitcountrymovie.com) (still in progress).• Designed and built mountain cabin for eco-tourism program (alpslookout.com).• Migrated entire stea.net website from hard-coded HTML to the Joomla CMS.• Taught community computer literacy classes. | | |
| United States Peace Corps
<i>Jamaica</i> | ICT Volunteer | Mar. 2010 – Dec. 2010 |
| <ul style="list-style-type: none">• As President of the Information Technology Advisory Group, organized digital resource sharing between Peace Corps Volunteers across the island.• Built prototype SMS server for Peace Corps Jamaica using FrontLineSMS.• Taught introductory-level Information Technology classes at vocational school in Negril.• Provided technical support to other volunteers. | | |
| Bold Technologies, Ltd.
<i>Colorado Springs, CO</i> | Software Engineer | July 2007 – Dec. 2009 |
| <ul style="list-style-type: none">• Worked with a small team of developers on Manitou, a distributed Windows-based automation solution for alarm central stations in the physical security industry.• Responsibilities ranged from new feature development to issue triage, from low-level sockets programming to user interface design. Wrote code in C++, C++/CLI, VB.NET, VB 6, and MS SQL.• Developed Manitou-Quickbooks gateway and major automated billing feature.• Also developed internal utilities and test applications for use by technicians during deployment | | |

and support situations.

- Fixed many elusive, longstanding bugs in legacy codebase.

USDA Agricultural Research Service **Research Technician** May 2006 – Nov. 2006
Dubois, ID

- Developed software tools and automated processes for analyzing aerial digital photographs of rangeland and other scientific data using Java, R, and ArcGIS.
- Designed, implemented, and deployed database server for rangeland monitoring and sheep genetic data with web-based front-end using Apache, MySQL, and PHP.
- Assisted in rangeland science data-gathering in the field.

Micron Technology, Inc. **Software Engineer** June 2004 – Jan. 2006
Boise, ID

- Developed and maintained interactive test applications for CMOS image sensors. Wrote code in Visual C++, Matlab, Python, and VBA.
- Designed and implemented multi-threaded back-end image processing framework and statistics engine.
- Also contributed to user interfaces, third-party tool integration, scripting interface, and hardware abstraction layers.
- Consistently rated over 35% above expectations in performance reviews. Comments include: “performs at the highest level”, “has an amazing insight into advanced software concepts.”

Micron Technology, Inc. **Intern Software Engineer** Summers 2000 – 2003
Boise, ID

- Part of a team developing an interactive test application for DRAM and Flash memory on Windows in Visual C++ with MFC.
- Introduced common design pattern base classes to legacy codebase, subsequently adopted by entire team.
- Designed and wrote compiler for automated test scripting language using Flex and Bison.

Education

Yale University **B.S., Computer Science** Fall 2000 – Spring 2004
New Haven, CT

- 3.50 GPA, Distinction in the Major
- Courses in Algorithms, Compilers, Computer Architecture, Cryptography, Data Structures, Operating Systems, Programming Language Theory.
- For senior thesis, developed a GUI toolkit for the Haskell programming language.

Other

- Built personal website at bartrobinson.com, including custom archive of travel photos and maps built with MySQL, PHP, Javascript, and the Google Maps API.
- Hiked the entire 1,000-mile Idaho Centennial Trail in pieces from 2005 to 2009.
- Fluent in English and Jamaican Patois. Competent in basic French.