

David Bond

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Objective

A challenging research and development position that provides an environment with opportunities for professional growth and teamwork oriented projects alongside opportunities for standard bodies' involvement, research, and product management.

Technical Summary

- ❖ **Languages:** C++ (6 years), C# (3 years), C (5 years), Java (5 years), PHP (6 years) TCL (5 years), MYSQL (5 year), JavaScript (2 years), Bash (5 years), (X)HTML (7+ years), CSS, XML, LINQ
 - ❖ **Specialties:** Networking(TCP/IP, Routing, Bridging), Artificial Intelligence, Heuristic Search, Object-Oriented Programming, Systems Programming
 - ❖ **Experiences:** .NET, Swing, Cisco IOS, JunOS, Office (Word, Excel, Power Point, Outlook, Visio), Apache, Photoshop, Eclipse, Visual Studio 2005/2008, Autotools, CVS, SVN, GDB, Valgrind, Boost, STL, Standards Development Involvement
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Experience

Interoperability Manager I

Durham, NH
2010

UNH InterOperability Laboratory, Bridge Functions Consortium

- ❖ Managed a group of five software test engineers
- ❖ Strategic Planning
- ❖ Eligible 802.1 Voter (Non-voting currently due to UNH-IOL's neutral stance)
- ❖ Authored Standards Track Internet Draft on TRILL OAM

Research and Development Software Engineer

Durham, NH
2009-2010

UNH InterOperability Laboratory, Bridge Functions Consortium

- ❖ Managed the autotools based build process for a C Server for arbitrary generation and reception of raw ethernet frames
- ❖ Collaborated with a team of six engineers as a member in a software development team
- ❖ Participated in Standard Bodies and attended conferences (IETF, IEEE)
- ❖ Lead development of a testing plan for IETF TRILL and IEEE 802.1aq SPB
- ❖ Involved in inter-departmental research opportunities round table
- ❖ Contributed the TRILL Dissector to Wireshark (<http://www.wireshark.org>)

Research and Development Software Engineer

Durham, NH
2007-2010

UNH InterOperability Laboratory, Routing Consortium

- ❖ Developed code for a Java client and C server
- ❖ Write interoperability and conformance test plans and implemented them with TCL scripting
- ❖ Collaborated with a team of engineers as a member in a software development team
- ❖ Created IPv6 Ready Logo Website (<http://www.ipv6ready.org>)
- ❖ Implemented a TCP Stack
- ❖ Awarded IOL Star for Meritorious Service, January 2009, August 2009

Operations Manager

Durham, NH
2007-2009

UNH InterOperability Laboratory, Routing Consortium

- ❖ Managed a group of five software test engineers in daily operations management

Software Test Engineer

Durham, NH
2006-2007

UNH InterOperability Laboratory, IPv4, IPv6 & Routing Consortiums

- ❖ Worked on the cutting edge of networking technology having experience in IPv4, IPv6, TCP, MPLS, IGMP, STP, and the numerous routing protocols such as IS-IS, OSPF, RIP, TRILL, and PIM. Responsibilities centered standards based testing, TCL scripting, and interaction with networking industry engineers.
- ❖ Configured devices from companies such as Brocade, Broadcom, Cisco, Enterasys, Extreme, Nortel, Juniper

Education

University of New Hampshire

PhD, Computer Science

❖ CEPS Graduate Fellowship Recipient

M.Sc., Computer Science

❖ GPA 3.88/4.0

B.Sc., Computer Science

❖ GPA 3.81/4.0, Major GPA 3.9/4.0

❖ Teaching Assistant

❖ Presidential Scholar, Dean's List, Computer Science Achievement Award

❖ Summa Cum Laude, Highest ranked in UNH Computer Science Class of 2009

❖ Member of: UNH AI, Upsilon Pi Epsilon, ACM(Treasurer)

❖ Organized ACM Meetings

❖ Economics Courses

Durham, NH

Expected May 2013

Expected May 2011

2005-2009

Publications

Refereed Conference Publications

- ❖ **Bond, David.** Widger, Niels. Ruml, Wheeler. Sun, Xiaoxun. Koenig, Sven. **"Real-Time Search in Dynamic Worlds,"** International Symposium on Combinatorial Search (SoCS-10), 2010.

Standards Contributions

- ❖ Perlman, R., Eastlake, D., Dutt, D., Gai, S., and A. Ghanwani, **"RBridges: Base Protocol Specification"**, IETF. Work in Progress (Approved to become RFC), March 2010.
- ❖ **Bond, D.**, Eastlake, D., **"RBridges: Operations, Administration, and Maintenance (OAM) Support"**, IETF. Work in Progress, July 2010.

Un-Refereed Papers

- ❖ **Bond, David.** **"Open Shortest Path First Guide"** Routing Consortium, InterOperability Laboratory, University of New Hampshire, Durham, NH, July 2008.

Books

- ❖ **Bond, David.** **"The Way of the Expert: Age of Empires III"** United States of America: CafePress, 2006.

Test Suites

- ❖ **Bond, David.** **"TRILL Conformance Test Suite"** Bridge Functions Consortium, InterOperability Laboratory, University of New Hampshire, Durham, NH, July 2010.
 - ❖ **Bond, David.** **"TRILL Interoperability Test Suite"** Bridge Functions Consortium, InterOperability Laboratory, University of New Hampshire, Durham, NH, December 2009.
 - ❖ **Bond, David.** **"Internet Group Management Protocol Snooping Interoperability Test Suite"** Routing Consortium, InterOperability Laboratory, University of New Hampshire, Durham, NH, July 2008.
 - ❖ **Bond, David.** Schwendimann, Greg. Winters, Timothy. **"Internet Group Management Protocol Version 3 Multi-System Interoperability Test Suite"** IPv4 Consortium, InterOperability Laboratory, University of New Hampshire, Durham, NH, March 2007.
 - ❖ **Bond, David.** Kistruck, James. **"Internet Group Management Protocol Version 3 Conformance Test Suite"** IPv4 Consortium, InterOperability Laboratory, University of New Hampshire, Durham, NH, October 2007.
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