

Please note this resume is 'un-abridged' meaning it contains all skills I have had *experience* with in the past. My brief resume contains a more accurate view of my experience and therefore may be a more useful view. This resume has some technologies that I have had experience with in the past but that I am not comfortable putting on my brief resume since I have not used them in a long time.

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.

Summary

- ❖ Computer Networking, Routing, Bridging, Standard's Body Participation, Quality Assurance, Test Suite Development, Web Development, Staff Management, Content Publication, Game Industry Interaction, Artificial Intelligence, Real Time and Incremental Heuristic Search, Tournament Management Experience

Technical Summary

- ❖ **Languages Proficient In:** C++ (6 years), C# (3 years), C (5 years), Java (5 years), PHP (6 years)
- ❖ **Languages Experienced In:** TCL (5 years), SML (1/2 year), Assembly (1 year), MYSQL (4 year), JavaScript (2 years), Bash (5 years), Ruby (1/2 year), (X)(D)HTML(7+ years), CSS, XML, LINQ
- ❖ **Specialties:** Networking(TCP/IP, Routing, Bridging), Artificial Intelligence, Heuristic Search, Object-Oriented Programming, Systems Programming
- ❖ **Frameworks Experienced In:** .NET, Swing, AWT, JDBC
- ❖ **Protocols Experienced In:** AJAX, REST, HTTP, IPv4, IPv6, TCP, OSPF, RIP, RIPng, VRRP, PIM-SM, DVMRP, BGP, BGP4+, IS-IS, DHCPv6, MPLS, RSVP-TE, LDP, VPLS, PWE3, IGMP, SSH, FTP, TFTP, SFTP, NTP, TELNET, SNMP, UDP, ARP, ND, ICMP, ICMPv6, TRILL, STP, RSTP, MSTP, SPB (802.1aq), LISP, HIP, 802.1Q, 802.1D, PBB, PB, PBB-TE, MPLS-TP, MRP, MVRP, MACsec(802.1AE), 802.1X
- ❖ **Methodologies Experienced In:** Object-Oriented Programming, UML, Waterfall Development, Agile Development
- ❖ **Operating Systems:** Windows(1998, XP, Vista), Linux(Fedora, Debian, SUSE), Unix, Solaris, BSD, MAC OS(OS X)
- ❖ **Misc. Experiences:** Cisco IOS, JunOS, ISO/OSI Network Model, Office (Word, Excel, Power Point, Outlook, Visio), Apache, Tomcat, IIS Servers, Java Servlets, Ruby on Rails, ASP, Photoshop, Eclipse, Visual Studio 2005/2008, Autotools (Autoconf, Automake, Make), CVS, SVN, GDB, Valgrind, Git, Mercurial, Boost, STL, LAMP

Research Interests

- ❖ Computer Networking, Internet Architecture, Data Center Bridging, Artificial Intelligence, Real Time and Incremental Heuristic Search

Experience

Interoperability Manager I

UNH InterOperability Laboratory, Bridge Functions Consortium

Durham, NH
2010

- ❖ 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

UNH InterOperability Laboratory, Bridge Functions Consortium

Durham, NH
2009-2010

- ❖ 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

UNH InterOperability Laboratory, Routing Consortium

2007-2010

- ❖ 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

UNH InterOperability Laboratory, Routing Consortium

2007-2009

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

Software Test Engineer

Durham, NH

UNH InterOperability Laboratory, IPv4, IPv6 & Routing Consortiums

2006-2007

- ❖ 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, F5, IP Infusion, HP Procurve, Sandvine, Nortel, Juniper, Oracle, Vyatta

Senior Manager

Online

GameReplays.org Ltd.

2007-2009

- ❖ Administrator in charge of managing volunteer staff for media and community website. Responsibilities included Industry Interaction, Content Publication, and Staff Management
- ❖ Managed a group of 15 volunteer staff
- ❖ Interviewed Blizzard Entertainment, Irvine, CA (Feb. 08), Electronic Arts, Los Angeles, CA (Feb. 08)
- ❖ Covered World Wide Invitational, Blizzard Entertainment, Paris France (June 08), BlizzCon 2009, Anaheim CA (Aug. 2009)
- ❖ Content Publication with SEO techniques

Assistant Instructor

Manchester, NH

New Hampshire Science Camps

2004-2006

- ❖ Summer Camp Assistant Instructor in a course using a GUI Programming Tool
- ❖ Taught children grades 4 through 8

Head Referee

Worldwide

International Cyber Marketing Inc.

2007-2009

- ❖ World Cyber Games Grand Final Age of Empires 3 Head Referee, Assisted administrate e-Sports tournament and Cyber Festival of ~700 final competitors
- ❖ Seattle WA, USA Oct. 2007
- ❖ Cologne, Germany Nov. 2008

Administrator

Los Angeles, CA

eSport Services

2008-2009

- ❖ Age of Empires III Administrator, World Cyber Games USA Championship, E for All, Oct. 2008
- ❖ Warcraft 3 Administrator, World Cyber Games USA Finals, September 2009

Senior Manager

Online

Heaven Games, LLC.

2005-2007

- ❖ Worked as a content administrator and online community moderator
- ❖ Experience with Zope Content Management System and (D)HTML
- ❖ Managed a group of 10 volunteer staff
- ❖ New World Tournament Administrator, June-Aug. 2006, 384 Competitors, Sponsored by Microsoft Game Studios & Ensemble Studios
- ❖ Empire Earth II Heaven Tournament Administrator, June-July. 2005, 100~ Competitors, Sponsored by Sierra Entertainment and Mad Doc Software
- ❖ Previewed Age of Empires III: The War Chiefs Expansion (Aug. 2006), Shattered Union (Nov. 2005)
- ❖ Interviewed Stainless Steel Studios (June 2005), MadDoc Software (May 2005)
- ❖ World In Conflict Closed Alpha
- ❖ Empire Earth III Closed Alpha and Beta

Invited Consultant

Empire Earth II, III Universities

- ❖ Invitation only game symposia by Sierra Entertainment and Mad Doc Software (Now Rock Star New England)
- ❖ March 2005 & May 2007

Los Angeles, CA

2005, 2007

Tester

Stainless Steel Studios

- ❖ Tested the Real Time Strategy: Rise and Fall: Civilizations at War

Cambridge, MA

2005

Sales Associate, Cashier

Off-Broadway Shoe Warehouse

- ❖ Employee of the Month Feb. 2006

Manchester, NH

2003-2006

Maintenance

Hillcrest Candia Apartments

Candia, NH

1998-2003

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

Durham, NH

Expected May 2013

Expected May 2011

2005-2009

Manchester Central High School

Student

- ❖ GPA 3.83, Ranked 32 of 512, Principal's List

- ❖ Spanish (7 Years Total)

- ❖ SAT – 1360

Manchester, NH

2001-2005

21st Century Community Learning Center

Student

- ❖ 3D Modeling Course

Manchester, NH

2005

Candia Henry W. Moore School

Student

Candia, NH

1993-2001

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.

Un-Refereed Papers

- ❖ **Bond, David.** Widger, Niels. "Dynamic Real Time Search" CS 980, Computer Science Department, University of New Hampshire, Durham, NH, December 2009.
- ❖ **Bond, David.** "Backward Real Time Heuristic Search in Grid World Pathfinding" CS 830, Computer Science Department, University of New Hampshire, Durham, NH, May 2009.
- ❖ **Bond, David.** "Open Shortest Path First Guide" Routing Consortium, InterOperability Laboratory, University of New Hampshire, Durham, NH, July 2008.

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.

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.

Test Suite Contributions

- ❖ **UNH-IOL.** "**Port-Based Network Access Control 802.1X Interoperability Test Suite**" Routing Consortium, InterOperability Laboratory, University of New Hampshire, Durham, NH, 2010.
- ❖ **UNH-IOL.** "**Intermediate System to Intermediate System Operations Test Suite**" Routing Consortium, InterOperability Laboratory, University of New Hampshire, Durham, NH, 2009.
- ❖ **UNH-IOL.** "**Open Shortest Path First NSSA Option Test Suite**" Routing Consortium, InterOperability Laboratory, University of New Hampshire, Durham, NH, 2009.
- ❖ **UNH-IOL.** "**Border Gateway Protocol 4 Operations Test Suite**" Routing Consortium, InterOperability Laboratory, University of New Hampshire, Durham, NH, 2009.
- ❖ **UNH-IOL.** "**Protocol Independent Multicast – Sparse Mode Operations Test Suite**" Routing Consortium, InterOperability Laboratory, University of New Hampshire, Durham, NH, 2009.
- ❖ **UNH-IOL.** "**Label Distribution Protocol Interoperability Test Suite**" Routing Consortium, InterOperability Laboratory, University of New Hampshire, Durham, NH, 2009.
- ❖ **UNH-IOL.** "**Application Security Interoperability Test Suite**" IPv4 Consortium, InterOperability Laboratory, University of New Hampshire, Durham, NH, 2008.
- ❖ **UNH-IOL.** "**Open Shortest Path First Operations Test Suite**" Routing Consortium, InterOperability Laboratory, University of New Hampshire, Durham, NH, 2008.
- ❖ **UNH-IOL.** "**Protocol Independent Multicast – Sparse Mode Interoperability Test Suite**" Routing Consortium, InterOperability Laboratory, University of New Hampshire, Durham, NH, 2008.
- ❖ **UNH-IOL.** "**Routing Information Protocol Version 2 Multi-System Interoperability Test Suite**" Routing Consortium, InterOperability Laboratory, University of New Hampshire, Durham, NH, 2008.
- ❖ **UNH-IOL.** "**Routing Information Protocol Over IPv6 Multi-System Interoperability Test Suite**" Routing Consortium, InterOperability Laboratory, University of New Hampshire, Durham, NH, 2008.
- ❖ **UNH-IOL.** "**Distance Vector Multicast Routing Protocol Operations Test Suite**" IPv4 Consortium, InterOperability Laboratory, University of New Hampshire, Durham, NH, 2007.

Contributed Talks

- ❖ **Real Time Search in Dynamic Worlds**, International Symposium on Combinatorial Search (SoCS-10), Atlanta GA

Presentations

- ❖ **Real Time D* Lite: Initial Results**, UNH CS 980, October 15th, 2009
- ❖ **Backward Real Time Heuristic Search in Grid World Pathfinding**, UNH CS 830, May 13th, 2009
- ❖ **Multicast & You**, UNH CS 595, September 23rd, 2008
- ❖ **C to D**, UNH CS 595, October 11th, 2008
- ❖ **LINQ**, UNH CS 595, December 4th, 2008
- ❖ **Transparent Interconnection of Lots of Links (TRILL): An Overview and Research Opportunities**

- UNH CS ACM, March 11th, 2010
- UNH CS 980, February 24th, 2010
- UNH IOL, January 21st, 2010

Awards, Fellowships, and Scholarships

❖ UNH CEPS Graduate Fellowship	2009
❖ Computer Science Achievement Award	2009
❖ National Prime Users Group Scholarship	2008
❖ S. Robert Levine and Craig R. Benson Scholarship	2006, 2008
❖ The National Science & Mathematics Access to Retain Talent Grant	2007-2008
❖ Wagner-Hosser Scholarship	2005-2008
❖ DAR Geraldine Olmstead Scholarship	2005-2008
❖ John B. and Martha M.W. Zocchi Scholarship	2007
❖ Fred G. and Gertrude A. Howell Scholarship	2007
❖ William H. Greenough Scholarship	2007
❖ Phyllis F. Hazen Scholarship	2005-2006
❖ New Hampshire Charitable Foundation Scholarship	2005-2006
❖ McIninch Scholarship	2005
❖ Gwen and George Eckman 60th Anniversary Scholarship	2005
❖ Certificate of Educational Development National	2003
❖ Charles W. Phillips Award	2001
❖ Candia Militia History Award	2001

Activities

Upsilon Pi Epsilon	Durham, NH
Member	2008-Present
Association for Computing Machinery (ACM)	Durham, NH
Treasurer	2008-Present
UNH-AI	Durham, NH
Member	2008-Present
National Honor Society	Manchester, NH
Member	2005-Present
Foreign Language Honor Society	Manchester, NH
Member	2002-Present
C.H.A.O.S. US First Robotics Competition	Manchester, NH
Team Member	2001-2002
Granite State Challenge Trivia Television Show	Manchester, NH
Team Member	2004-2005
UNH CEPS Open House	Durham, NH
Volunteer	2006
Manchester Central High Library	Manchester, NH
Volunteer	2004-2005
Dover Community Church	
Attendee	

Websites

http://mokon.net	2005-Present
Personal Website/Blog	Sole Developer/Content Provider
http://ipv6ready.org	2007-2010
IPv6 Forum Ready Logo Website	Sole Developer, Site Maintenance
http://amandaanddavid2011.com	2010-2011
Personal Wedding Website	Sole Developer/Content Provider
http://gamereplays.org	2007-2009
Gaming Community Site	Staff (Content Provider)
http://heavengames.com	1998-2007
Gaming Community Website	Staff (Content Provider)

Events Organized

- ❖ **IOL Tour**, IEEE Computer Society Boston Chapter, August 21st 2010
- ❖ **TRILL Interoperability Plugfest**: UNH IOL, August 3rd – August 5th 2010
- ❖ **TRILL: An Overview and Research Opportunities**, UNH ACM, March 11th 2010
- ❖ **Introduction to Make**, UNH ACM, March 4th 2010
- ❖ **Silver Tech Presentation**, UNH ACM, October 26th 2009
- ❖ **The Serious Game Industry, Muzzy Lane Software**, UNH ACM, September 29th 2009
- ❖ **IOL Tour**, IEEE Computer Society Boston Chapter, June 13th 2009

Conferences Attended

IEEE 802 LMSC Plenary Meeting

Attendee

International Symposium on Combinatorial Search (SoCS-10)

Contributing Speaker

Future Net Expo

Attendee

IETF #77th

Attendee

IEEE 802 LMSC Plenary Meeting

Attendee

World Cyber Games US Finals

Administrator

BlizzCon 2009

Press

IETF #75th

Attendee

World Cyber Games Grand Final

Head Referee

World Cyber Games US Finals

Administrator

World Wide Invitational

Press

World Cyber Games Grand Final

Referee

Empire Earth III University

Invited

Empire Earth II University

Invited

San Diego, CA

July 2010

Atlanta, GA

July 2010

Boston, MA

May 2010

Anaheim, CA

March 2010

Orlando, FL

March 2010

New York, NY

September 2009

Anaheim, CA

August 2009

Stockholm Sweden

July/August 2009

Cologne, Germany

November 2008

Los Angeles, CA

October 2008

Paris France

June 2008

Seattle, WA

October 2007

Los Angeles, CA

May 2007

Los Angeles, CA

March 2005

Citizenship: U.S.A.

References: Available On Request
