

Eric Wheeler
ewheeler@ewheeler.org

- Research Assistant** 2006-Present **Portland State University, Portland, OR**
Performing research under Suresh Singh answering the leading-edge question “if you were to redesign the Internet from scratch given what we have learned in the past 30 years, how would you do it?” At this point in the research, the new routing model is well defined following a group-based topology. The simulation environment to test this model is in development and nearly complete. We expect results by May, 2008 for submission to the Special Interest Group on Data Communications (SIGCOMM) conference in August, 2008. In addition, this research is applied toward the PSU Research Proficiency Exam for Ph.D. candidacy.
- Security Consultant** 2006-Present **eWheeler, Inc., Newberg, OR**
Provide consulting for Windows and Linux server management and data recovery including off-site remote backup and Internet hosting/filtering. Customer base ranges from a two-computer law firm to multi-site networks with hundreds of connected computers, devices and security management equipment. Experience includes Windows and Linux server management, firewall and VPN management, and multi-site VPN/WAN design and implementation. Design QoS policy routing for multi-interface firewalls to route inter-site VoIP. Designed high-availability, load-balanced clusters using failover technologies in virtualized environments under Xen. Design and implement incremental disk-to-Internet backup solutions. Perform forensic analysis of compromised Linux and Windows hosts. Perform data recovery of two-disk RAID5 failures and failing non-RAID disks. Implement server consolidation using virtualization technologies.
- Director;Vice President of Operations** 2002-2006 **National Security Concepts, Inc., Portland, OR**
Formed corporation to provide computer and network security and offer comprehensive support solutions to businesses. Responsible for developing systems automation, system administration (Windows and UNIX based systems) and network engineering. Designed, implemented and managed multi-site Windows networks. Designed and implemented Bayesian spam filter and virus scan for customer mail systems. Designed and implemented remote incremental backup system. Required extensive personnel management, sales, contract negotiation, and marketing skills, as well as daily interaction with clients in person and by phone.
- Sr. Network Engineer** 1999-2002 **KAICO Computers & Peripherals, Tualatin, OR**
Responsible for systems management for company providing out-source systems administration for Windows and Novell networks. Designed, developed, implemented, and maintained Internet technologies including LAN/secure WAN systems, network management and security tools, remote administration infrastructure, network logging/attack auditing and reporting software. Designed and implemented HTTP content filtering, Linux-based firewall systems, and e-commerce sites. Required troubleshooting skills in Windows NT/2K/XP servers and workstations, Linux, FreeBSD, and SCO UNIX in IP- and TTY-based environments. Also required troubleshooting, modifying and repairing third-party software. Designed and implemented PostgreSQL/MySQL databases. Built servers using RAID storage for data redundancy with varying tape and disk backup solutions. Worked with clients daily via telephone and in person.
- Sr. Software Engineer** 2000-2002 **eBoch Interactive Media, Newberg, OR**
Responsible for programming for company providing contracted software development services to local businesses, as well as email and website hosting services. Designed and implemented software technologies including database/application interaction, Windows-based keyboard macro software, e-commerce sites, custom software, and process automation. Developed software in Win32 and POSIX C/C++, PERL, Java, and Bourne-shell languages. Set up PostgreSQL UNIX/Windows inter-operation via ODBC links. Also required skill in troubleshooting network and Internet hosting issues.

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- Network Technician** 1998 **Gerald R. Wheeler, CPA, Federal Way, WA**
Performed network management and maintenance for trust accounting firm which managed software, network, and servers for their clients. Responsible for installation and configuration of Novell 3.12/4.0 servers and client workstations, configuration of remote dial-in using DOS-based PCAnywhere. Installed and terminated 10-Base2 coax/BNC cables. Configured network interfaces and IPX bindings on servers and workstations. Repaired failed Novell servers. Developed Novell emulation TSR driver in x86 assembler to emulate Novell interrupt calls under Windows 9x networking.
- Education** **Accepted to program for Doctor of Philosophy in Computer Science, Portland State University**
Admitted to Ph. D. program December, 2007. Expected graduation: December 2009.
- Master of Science, Computer Science, Portland State University** (pending graduation in March 2008) Focus of study in Security, Systems, and Databases. GPA: 3.72
- Bachelor of Science, Computer Science, Portland State University**
Served on the Computer Action Team and volunteered a minimum of ten hours a week offering computer support services to students and faculty and also supporting the campus-wide College of Engineering and Computer Science network. GPA: 3.28
- Achievements** Completed training in gigabit layer three switching equipment at International Science Academy, Independence, MO, 2006
Received Brownfield award as outstanding 1st year member, Oregon Junior Chamber of Commerce, January 2006
Completed Cisco Certified Network Associate levels I and II, 2001
Technical robotics article published in *Midnight Engineering*, Winter 2000, Volume 11, Number 1
Set up dial-up Internet service provider for Newberg High School students and faculty, 1997-99
Team Leader, Newberg High School Robotics Team, 1995-99
Led First Place team at Robotics International/Society of Mechanical Engineers (RI/SME) national robotics competition, Saginaw, MI, 1999
Led Gold Place team at RI/SME national robotics competition, Saginaw, MI, 1998
Led Second Place team at state robotics competition, Oregon Institute of Technology, 1997
Member of First Place team at state robotics competition, Oregon Institute of Technology, 1993
- Professional Affiliations** Junior Chamber International, 2005-Present
Individual Development Vice President, Oregon Junior Chamber of Commerce, 2008
Public Relations Vice President, Oregon Junior Chamber of Commerce, 2007
Public Relations Vice President, Westside Junior Chamber of Commerce, 2006
Hillsboro Chamber of Commerce, 2002-2004
Tualatin Chamber of Commerce, 2002-2004
Newberg Chamber of Commerce, 2002-2006
McMinnville Chamber of Commerce, 2002-2004