

Brian Wilson

CISSP, CCAI, CCNA, CCSE, JNCIA, Security+, Network+, MCP

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Qualifications

Over 14 years of experience in the Information Technology field working with VoIP Integration, Network Security, MSO/RF Cable Plant, DOCSIS Security Engineering, CMTS Configuration, MPLS Configuration, ISP Network Engineering, & Metro Fiber Systems Management. Excellent communication, customer support skills, and a proven track record of exceeding company and client goals.

Software/Hardware Systems Experience

Microsoft Windows NT, 9X, ME, 2000, 2K Server, XP, 2003, Vista, Linux/Unix OS systems, Cisco PIX, Call Manager, Cisco IOS, Cisco ONS, Cisco Switches, RiverStone MLS, Netscreen, SONET, ATM, Frame Relay, Gig-E, DOCSIS (1.x -3.0), FDDI, PacketCable, OpenCable, Remedy Ticket System, Prisma IP, Terawave PON, IMC Networks, Telabs, Openview, Whatsup Gold, MRTG, other Network Monitoring Systems, Ethereal, Cain & Able, RF Meters, Packetyzer, WiFi Scanners

Certifications

- Certified Information Systems Security Professional (CISSP) (ISC# 120039)
- Cisco Certified Academy Instructor (CCAI) (Cert# 3191875CCNA)
- Juniper Networks Certified Internet Associate (JNCIA) (Cert# JPR15176)
- Cisco Certified Network Associate (CCNA) (Cert# CSC010397716) (Currently Dark)
- Cisco Certified Sales Expert (CCSE) (Cert# CSC010397716)
- CompTIA Security+ Certification (Security+) (Cert# COPM001001476173)
- CompTIA Network+ Certification (Network+) (Cert# COPM001001476173)
- Microsoft Certified Professional (MCP) (Cert# 2747421)

Work History

Network Consulting Engineer III 4/2008 – Present

Cisco Systems Inc. RTP, North Carolina

A member of Cisco's Advances Service team that supported major cable accounts (Comcast, Time Warner, Cox, Charter, Cablevision, Suddenlink, Rogers, Mediacom, & Hot Telecom in Israel) as the top tier engineering support. My team consisted of the top talent in the industry and we provided consulting and support services for both our cable customers and internal Cisco groups to lead DOCSIS technologies to the next level. I provide onsite and remote DOCSIS 3.0 training too many different MOS's and also supported there rollouts of the latest network designs and products. Deployed to customer locations to fix issues involving cable node utilization, congestion, RF plant, CMTS design (MCMTS & legacy CMTS), New Deployment, over builds, and any other issues the local customer could not solve. Submitted patents to assist Cisco in securing a competitive advantage in the MSO industry and also worked on solutions to add more security into the DOCSIS networks. I also spoke at different security conferences to educate the need for edge security in network designs and also discussed how to include DPI technologies to support a deeper view into network flows, utilization, and trends.

Sr. Network Engineer (SME DOCSIS) 7/2006 4/2008

Cox Communication Inc. (Corporate), Atlanta, Georgia

Managed and supported Cox Communication's local cable systems in 20 major cities consisting of over 7 million broadband/VoIP customers. Held the role of DOCSIS Subject Matter Expert (DOCSIS Security Engineer) for all of Cox's CMTS systems to include Cisco 10012UBR 7246VXR, Motorola BSR, Bigband Cuda, Scientific Atlanta BroadLAN, & other CMTS technologies. Worked with system engineers to support CMTS's, HFC plant, Netscreen firewalls, SA encoders, Satellite receivers, Video over IP, T-1 over HFC, DWDM, SONET, DOCSIS, Modems, TLS over DOCSIS, EMTAs, Routers, Switches, Soft Switches, L2/L3 VPN over DOCSIS, VoIP, PacketCable, & all other MSO networking Equipment. Work closely with all vendors to assist them in the development of new technologies to support industry demand. Created

technical documents/Videos for field engineers to assist them in the maintenance of all networking equipment and to insure company guidelines were followed. Benchmark vendors service levels and provided management with reports on vendor commitment and reliability. Wrote technical documentation for conferences and provided lectures to industry peers explaining new technologies. Was lead (SME) CMTS Engineer for companies DOCSIS Operations group and provided guidance on vendor selection. Assisted the Launch of VoIP in many Cox systems and was the main contact for support when advanced troubleshooting was required 24/7.

Broadband Engineer 9/2003 – 7/2006

Cox Communication Inc., Macon, Georgia

Engineered and Supported Cox Communication's Data/Fiber/Voice/Video Network for Middle Georgia. Provided Level 3 & 4 Technical support for the organization and customers. Was responsible for Cisco CMTS Routers (7223,7246,10012 series Routers), Tellabs NGX5500, Mix 56 DS3 Mux, Cisco ONS SONET, Riverstone Routers, Foundry layer 2/3 Routers, IMC Fiber Converters, Terawave PON Routers, ADVA/Covaro Etherjack, Netscreen/Cisco Firewalls, Juniper Routers, Cable Modems, eMTA's, IDS systems, Soft Switches, and all WAN devices for Cox's Middle Georgia Cable System. Monitored and administered over 43,000 user/business accounts for Broadband, Voice (VoIP), TDMA, Point-to-Point, and Direct Fiber customers. Provided direct engineering support and design for pre and post sales support of Data/Voice/Video circuits ranging from 128k to OC192. Was lead systems engineer on Cox Middle Georgia VoIP team and integrated our infrastructure to support and launch VoIP and advanced voice services. Provided Engineering for CMTS's and upgraded all our plants CMTS's from Cisco 7246VXR's to Cisco 10012ubr Router. Provided direct support and training to personnel within my department. While supporting the Middle Georgia Network I held the roles of Data Network Engineer, Security Engineer, VoIP Engineer, Transport Engineer, & Broadband Engineer.

Cisco Academy Instructor 5/2003 - 9/2003

U.S. Air Force Contractor (SAIC), Robins Air Force Base, Georgia

Instructed the U.S. Air Force's Cisco Networking Academy at Robins Air Force Base. Was responsible for the training and instruction of all students sent through the Cisco Networking Academy Program and provided career counseling to assist personnel in their professional development. Administered, installed, & configured a lab network which included 15 Cisco routers, 8 Cisco layer 2/3 Switches, 8 high speed access switches, 4 Cisco PIX firewalls, 3 File/DHCP/FTP servers, and 20 Workstations which served as a class network and lab. Provided direct instruction, labs, lecture, and hands on exercises for semesters 1 - 4 to prepare students to become Cisco Certified Network Associates. Controlled and administered all Academy aspects to include administration, management, and hands on instruction. Prepared students to support enterprise networks and trained them on the objectives needed to pass the CCNA, A+, Network+, & Security+ Industry Certifications.

Senior Information Management Specialist III 9/2002 - 5/2003

U.S. Air Force Reserve Command Contractor (ACS), Robins AFB, Georgia

Managed and controlled an Enterprise Network with over 35,000 user's and supported over 45 branch offices around the world. Worked with NOSC (Network Operations Security Center) team to migrate Microsoft Exchange Servers 5.5 to Microsoft Exchange 2003 and updated our network to Support Active Directory (2003 Sever). Was responsible for providing support and configuration for Networks Cisco PIX firewalls and all Cisco routers. Installed and maintained all Air Force Reserve Command DMS/PKI Servers and clients which provided secure computer communications. Designed and integrated a web based applications to assist network users and increases productivity within my department. Worked with VTC team to administer all conferences and also provided them with hardware/software support as needed. Re engineered all system hardware and software, implemented quality assurance standards, upgraded supporting business processes, and significantly improved overall IT performance, reliability, and functionality.

Technical Supervisor/Consultant 6/2001 - 9/2002

ITC^Deltacom, Fort Lauderdale, Florida

Supervised Technicians and provided consulting for ITC's Central & South Florida Offices (Orlando to Key West). Administered and directed all installations, maintenance, LAN/WAN upgrades, and service to customers T-1, T-3, and OC-3 circuits. Responsible for the installation of Adtran channel banks, Cisco routers, Cisco Pix Firewalls, and NEC PBX systems per customers orders and sells requests. Managed Office's network and provided on-site support for any down time. Provided support and network consulting to

sales force and customers to fulfill client and company goals. I was lead in the migration of customers from our old voice/data network DMS 500 Facility in Ocala Florida to our newly installed DMS 500 Switch Facility in West Palm Beach. Worked with and managed relationships with customers and vendors to provide a positive business environment while achieving company goals. Designed and configured networks for customers to stream line there IT operations while cutting monthly cost with our company's telecommunications solutions.

Network Operations Center Manager (NOC) 7/1995 - 6/2001

U.S. Army, Fort Gordon, Georgia (Enlisted NCO US Army)

Provide Installations, Operations Management, Maintenance, and System Upgrades for Telephone and Computer Systems for CEO level leadership. Was responsible for purchases and decision making for company's information systems. Responsible for worldwide deployment installation, operation, and maintenance of Multi-Channel Secure Tactical Satellite Terminals, Ethernet Networks, and other networking components (compete mobile computer networks). Provided secure Internet protocol routing network (SIPRnet) and non-secure Internet protocol routing network connectivity, voice telecommunications, video-teleconferencing equipment, and PBX switching systems. Provided support to the U.S. Army Special Forces missions in South America and deployed to the region to support critical communication systems for their missions. Was accommodated for my support in humanitarian missions in providing communication infrastructure to help rebuild the region after Hurricane Mitch (1998) devastated Central/South America. Our Platoons mission provided shelter, power, supplies, and Communication infrastructure to assist many Governments in rebuilding.

Security System Technician 6/1994 - 7/1996

Security Systems Management, Warner Robins, Georgia

Installed and repaired residential and commercial security systems, Installed CCTV Systems, Motion sensors, Door/Window sensors, Glass Break sensors, Video Phone consoles, Heat/Smoke detectors, laser sensors, Safe security sensors, and Intercom systems. Was responsible for company's inventory, supply system, warehouse and worked with vendors to insure special pricing. Successfully bid and completed a \$85,000 contract installation for Toys "R" Us Incorporated. Provided sales support and consulting for customer accounts and also constructed bid proposals.

Other Professional Experience (Publications & Speaking)

- Columnist for www.ethicalhacker.net since 2007
- Chicagocon 2007 Cain & Able; Windows Can Hack Too (MITM Attacks, Sniffing, Password collecting, Remote CLI, ect..)
- Chicagocon 2008s More Fun With Cain (Hash decryption and interception via MITM and using rainbow tables, Brute force, and word list to take over a network)
- Chicagocon 2008f VoIP Sniffing (VoIP Sniffing and interception with the use of sniffers and MITM attacks to gain access to restricted VLANs and network segments)
- Chicagocon 2009 Cain Beef Hash (Metasploit, Cain, Beef, SamuraiWTF used together to take over an enterprise network and pivot an attack to steel network credentials)
- OuterZOne5 2009 MITM Attacks With Cain & Able (Sniffing and MITM explained with live demo and mitigation tactics explained)
- RIT 2009 Speaker; Gave a lecture on Hash encryption and the security and lack of security of different kinds of Hashes over the network.
- Phreaknic13 2009 It's 9AM do you know where you Hashes are? (Hash theft by exploiting enterprise trust via MS trusted intranet zones)
- Published in www.networkworld.com online 3 times 2007-2009