Network Engineer Network Engineer Network Engineer Work Experience Network Engineer National Oceanic and Atmospheric Administration - Seattle, WA June 2012 to March 2019 N-Wave Network Services Network Engineer   Performed implementation & support & troubleshooting of site-to-site VPN tunnels, remote access VPN connectivity (with several thousand users employing the Cisco AnyConnect client,) two-factor authentication, general stateful firewall functionality, switching, routing, wireless, and fiber & frame-relay & MPLS & satellite connectivity through service providers. Investigated, researched, and mitigated results of Tenable security scans, RANCID updates, syslog output, incident reports, and vendor advisories.   *Hardware/Platforms/Tools: Cisco ASA 55xx; Cisco ACS, Cisco ISE, and a wide variety of Cisco switches & routers including 65xx & ASR 1002-X. Both Cisco and Aruba access-points. Some exposure to Juniper.   *Protocols: a wide variety including 802.1Q; 802.1x; 802.3; BGP; DHCP; DNS; EIGRP; GET VPN; IPSec protocol suite; NAT; OSPF; RADIUS; TACACS+; TCP/IP; WCCP. Network Planning Analyst Volvo Information Technology - Hagerstown, MD July 2011 to October 2012 Provided wired & wireless connectivity and IP telephony, performing support & changes at a 1.5 million square foot facility dedicated to the design, manufacturing & testing of engines & transmissions for Volvo & Mack Trucks, troubleshooting for engineering development & business office environments as well as assembly lines which are highly computerized and use both wireless & wired connectivity. I supported WAN connectivity to other Volvo locations and as required I supported and provided design assistance to other Volvo manufacturing facilities and partner sites for varied functionality including security, VoIP, analog voice, & video.   *Hardware/Platforms: Cisco Catalyst switches 3560, 3750, 4500, 65xx; Cisco routers 28xx; Cisco 79xx IP phones; Cisco VG248; Cisco ATA-188; Cisco Aironet 11xx &12xx autonomous & lightweight access points; Cisco Wireless LAN Controller WLC4404; Cisco CUCM 6.x.   *Protocols: 802.11a/b/g/n; 802.1Q; 802.1x; 802.3; DHCP; DNS; EAP_FAST; EIGRP; H.323; HTTP; IPSec protocol suite; MGCP; NAT; OSPF; PPP; PPTP; RADIUS; SCCP; SNMP; STP; TACACS+; TCP/IP; TFTP. Network Administrator New Enterprise Stone - Lime, CO July 2003 to April 2011 Was responsible for a Cisco AVVID network providing data and voice to over 1000 IP phones and sixty physical locations, as well as video to major sites.   *Hardware: Cisco routers

17xx, 18xx, 25xx, 26xx, 36xx, 3725, 7xxx, RSP; WAN (WIC) & Voice (VIC) Interface Cards for the 1700 through 3800 series; High Density Analog modules for the 26xx, 3725 & 38xx. Cisco Catalyst switches 2900XL, 35xx, RSM, 6000, 6500, PFC, MSFC, MSFC2. Other Cisco Gear: PIX; Cisco 30xx VPN Concentrator; Cisco 7905, 7910, 7940 & 7960 IP phones; Aironet 1200 Series access points. Windows 2000; Windows XP, SUSE Linux platforms.   *Protocols: TCP/IP; SNMP; RIP; EIGRP; BGP; IPX/SPX; Frame-Relay; ISDN; 802.11b; 802.3; Spanning Tree; FTP; H.323; HTTP; DHCP; DNS, LDAP; WINS; MGCP; NAT; PPP; L2TP; PPTP; IPSec protocol suite; RADIUS; SCCP; SRST; TACACS+; syslog; TFTP. Network Infrastructure Engineer West Virginia Office of Technology - Charleston, WV July 2008 to June 2010 Provided design and support assistance to the Network and Telecom groups, assisting with the day-to-day support of Cisco IP phones registered to several independent CallManager & Cisco Unified Communications Manager clusters and with support of voice-mail on multiple Unity servers. Implemented varied wireless solutions to meet the needs of both the state's employees and the public, worked on increasing the security of the state's networks, and provided network support for the WVOT's constituent agencies. Performed market and or technical research for possible WVOT projects such as voice recording.   *Hardware/Platforms: Cisco Catalyst switches 29xx, 3560, 3750, 4500, 65xx; Cisco routers 17xx, 18xx, 25xx, 26xx, 28xx, 36xx, 3725, 38xx, 7xxx, 87x; Varied Cisco WAN (WIC) & Voice (VIC) Interface Cards & modules; Cisco ASA 55xx; Cisco PIX 515-E; Cisco 30xx VPN Concentrator; Cisco 79xx IP phones; Cisco VG248; Cisco ATA-188; Cisco Aironet 11xx &12xx access points, some autonomous and some lightweight; Cisco Wireless LAN Controller WLC4402; Cisco CallManager 4.x; Cisco CUCM 6.x; Cisco Secure ACS 4.x; Cisco Unity; Cisco VPN client; Enterasys Matrix N5 switches; Enterasys Dragon Intrusion Detection and Prevention Dragon Security Command Console; HP ProCurve 5308.   *Protocols: 802.11a/b/g/n; 802.1Q; 802.1x; 802.3; BGP; CAPWAP; DHCP; DNS; EAP_FAST; EIGRP; H.323; HTTP; IPSec protocol suite; L2TP; LWAPP; MGCP; NAT; PPP; PPTP; RADIUS; SCCP; SIP; SNMP; Spanning Tree; SSH; SSL; TACACS+; TCP/IP; TFTP; TLS. Network Engineer Boyertown Area School District - Boyertown, PA May 2005 to May 2010 Implemented IP Telephony (VoIP) installation throughout the school district (800 phones spanning twelve sites) configuring:

Cisco CallManager, Cisco Unity, Cisco Emergency Responder, Cisco Wireless LAN Solution Engine, Cisco Secure Access Control Server (ACS), routers, switches, and wireless access-points.

 *Hardware: Cisco 2851 routers; Cisco Catalyst switches: 3560, 3750, 4510; Cisco 7912, 7920, 7940, 7960 & 7970 IP phones; miscellaneous Cisco gear: ATA-188, VIC2-4FXO, VWIC-2MFT-T1, RPS 675; Windows 2000 & XP platforms.   *Protocols: TCP/IP; SNMP; 802.11a/b/g; 802.3; 802.1Q; Spanning Tree; HTTP; DHCP; DNS; MGCP; NAT; PPP; L2TP; PPTP; IPSec protocol suite; SCCP; SSH; SSL; TACACS+; TFTP. Network Engineer Syracuse City School District - Syracuse, NY July 2006 to July 2007 I provided expert advice to the IT staff as well as hands-on support for the network infrastructure and the VoIP, video, & traditional data traffic it carries. I handled all necessary interaction with the Cisco TAC for support cases including the analysis and RMA of failed equipment. Verizon held the support contracts for the Cisco infrastructure and I acted as the liaison between the SCSD, Verizon & Cisco. Verizon also supported miscellaneous equipment such as APC enterprise-class UPS devices in the district's NOC, which I programmed to communicate with the APC management appliance and to send e-mail when experiencing fault conditions. I configured, supported, and upgraded various equipment which the SCSD doesn't have the resources to work with, such as BlueSocket devices used to manage wireless access.

*Hardware/Platforms: APC "InfraStruXure" management appliance; APC Symmetra RM 6000; BlueSocket "BlueView" management appliance; BlueSocket BSC-5000; Cisco Secure ACS; Cisco Aironet 12xx; Cisco Catalyst switches 65xx , 35xx; Cisco 3xxx VPN concentrator; Cisco 37xx routers; Cisco PIX 515E; Cisco 7912, 7920, 7940, 7960 & 7970 IP phones; CiscoWorks; Cisco CallManager; Cisco Unity; Cisco WLSE; Cisco VPN client.   *Protocols: TCP/IP; SNMP; 802.11a/b/g; 802.3; 802.1Q; DHCP; DNS; EIGRP; HTTP; MGCP; NAT; PPP; L2TP; PPTP; IPSec protocol suite; SCCP; SSH; SSL; STP; TACACS+; TFTP. Network Engineer Link Computer Corporation - Bellwood, PA January 2005 to March 2005 Configured Cisco routers and switches, installed IP phones, & built Unity and CallManager servers for clients. Staff Network Engineer Lumenare Networks - Sunnyvale, CA September 2000 to March 2002 Lumenare provided remote laboratory services (web-enabled design, qualification, demonstration and deployment) for service

providers and hardware and software vendors in an Internet-accessible lab using its software which enabled users to create and replicate network topologies on demand (without moving cables but instead through multiple layers of behind the scenes switching) in a remote secure environment. My chores included: researching, evaluating, and modeling hardware in varying formats so that the managed network gear could be manipulated by code via its command line interface or SNMP; network infrastructure design; building and testing topologies both through and without the lab management software; maintaining network testing lab wiring and equipment; creating diagrams to document topologies; writing hardware setup and user documentation; scripting to automate repetitive router and switch interaction; writing testing plans. Provided subject matter expert advice on: the Cisco IOS including upgrades and password recovery; ATM; MPLS; NMS design; firewall & DMZ setup; Cisco Secure IDS; Cisco Secure ACS; Cisco AAA; ACLs; VPNs; DSL; TCP/IP protocol suite; physical and data-link layers; VLANs; EtherChannel; VTP; ISL; 802.1q (& Cisco proprietary implementation PVST+); L3 switching (inter-VLAN routing, MLS, multicast MLS); SONET; DWDM; RTSP; VoIP; H.323; IP tunneling including GRE and other Cisco supported tunneling technologies such as STUN-SDLC; Cisco management tools such as Cisco Networking Services Network Registrar and CiscoWorks 2000.   *Hardware: Cisco routers 25xx, 26xx, 36xx, AS5300, AS5800, 7xxx, RSM, PIX, MGX88xx; WAN (WIC) & Voice (VIC) Interface Cards for the 2600 and 3600; Cisco Catalyst switches 2900XL, 3xxx, 4xxx, 5000, 5500, RSM, 6000, 6500, PFC, MSFC, MSFC2; Cisco LS1010; Cisco 30xx VPN Concentrator; Inrange 2850, 2700 series 400 matrix switches; Madge AS60 switch simulating a PSTN; Nortel Passport 8600; Marconi ASX-4000; Adtech AX/4000; SmartBits 2000; Windows NT, Windows 2000, Unix, & Red Hat Linux desktops and servers.

*Protocols: TCP/IP; SNMP; RIP; IGRP; EIGRP; OSPF; BGP; IPX/SPX; ATM; X.25; Frame-Relay; ISDN; 802.11b; 802.3; FTP; HTTP; DHCP; DNS, LDAP; WINS; NAT; PPP; L2TP; PPTP; IPSec protocol suite; RADIUS; STP; TACACS+; syslog; TFTP. Network Engineer Scient Corporation - San Francisco, CA April 2000 to September 2000 Scient built online businesses, providing as much help as was desired, in the areas of web site design, systems architecture and marketing. The VOC was its 24 X 7 support organization for clients not willing or able to provide their own. Projects

included configuring CiscoWorks 2000 and HP Openview, and documenting support procedures for the web sites of Scient's clientele. Supported Scient's networks including VPNs to clients, and the associated hardware, mostly Cisco, but including Foundry BigIron and Alchemy, using HP Openview on Sun Solaris 7 and Windows 2000 platforms. Used the Remedy trouble-ticketing system to track client issues.   *Protocols: TCP/IP; BGP; OSPF; SNMP; FTP; HTTP; Spanning Tree; TACACS+; DHCP; DNS; NAT. Advisory Systems Engineer Bank of America - San Francisco, CA July 1995 to April 2000 Supported an international, highly redundant network of over 6000 Cisco routers. Funds Transfer Delivery Group Advisory Systems Engineer Supported a separate closed network dedicated to settling accounts with the Federal Reserve.   *Hardware: Cabletron Hubs; DEC AlphaStation 200; DEC 3000 AXP; all series of DEC VAX; IBM RISC System/6000; Intel-based personal computers; Network General Sniffers; Network Systems Corporation routers, including NSC Vitalink 6600 Series Bridge/Routers; Cisco 7000, 4000, & 2000 Series routers, all models of Cisco Catalyst switches.   *Protocols: TCP/IP; EIGRP; BGP; OSPF; IPX/SPX; DLSw+ (SNA/SDLC); RIP; IGRP; SNMP; ATM; X.25; 802.3;   802.5; ISDN; Frame-Relay; 802.1D Spanning Tree; TACACS+; DHCP; DNS; FTP; NAT; TFTP. Advanced Programmer/Analyst Shared Medical Systems Corporation - Malvern, PA September 1988 to July 1995 Supported SMS' ALLEGRA Product Line, (a comprehensive health-care information system,) maintaining & developing primarily in VAX Basic & DCL in a proprietary screen-driven (SPS) environment in order to fix bugs and make client-specific modifications to the base software. Traveled to client-sites to install ALLEGRA, and to teach clients how to utilize the many tools which were part of the product and made it easily customized. Supervised less senior programming staff and managed client-specific projects. DEC-Based Subsystems Device Evaluation Group Programmer/Analyst Developed and maintained device-specific and device-testing software using C, DCL, and MUMPS. Performed peripheral device evaluations, market searches & troubleshooting, mainly for SMS' Unity^ Product Line. Produced documentation of device evaluations and market searches, and wrote setup and troubleshooting guides for hardware. Answered device and networking questions for DEC-based SMS personnel, and presented and negotiated technical requirements of hardware with vendors.

Tested DEC terminal server software to ensure it interacted correctly with SMS' subsystem software. Reviewed new releases of VMS in regard to their interaction with then currently supported devices. Education B.S. in Computer Science University of Pittsburgh B.A. in English & Political Science Indiana University of Pennsylvania Certifications/Licenses AWS Certified Cloud Practitioner Present AWS Certified Solutions Architect - Associate Present Cisco Certified Network Professional (CCNP) Cisco Certified Network Professional - Security Cisco Certified Design Professional Present

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