



Trainer

NEAL A. McDONALD



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Technical Expertise

Route Maintenance & Configuration:

RIP, IGRP, EIGRP, OSPF, IS-IS, BGP, VLAN, STP, SNA, 802.1Q, ISL, TCP/IP, IPX/SPX, VLSM, Appletalk, Route Re-distribution, Summarization

WAN Technologies:

Frame Relay, ISDN BRI/PRI (dedicated & backup/load balancing), ATM, FDDI, CDDI, QOS (via custom & priority queuing strategies)

Operating Systems:

Windows, Unix, Caldera/Mandrake/SUSE Linux, AS400, Novell, Apple

Troubleshooting & Securing LAN/WAN:

Packet/Signature Analysis via TCP Dump and Ethereal, Access Control Lists for IP/IPX/Appletalk VPN, IPSEC, DES, 3DES, PAP/CHAP, RADIUS, TACACS, PIX/Checkpoint firewall configuration

Other:

Cisco IOS & Set Command Multilayer Switch configuration & troubleshooting including HSRP. NAT, PAT, TCP overloading, DNS, ARP, DHCP, BOOTP, ICMP, Inverse ARP & Reverse ARP, Active Directory, Group Policies

SUMMARY

CCNA, CCNP, CCIE (candidate), MCSE, MCT, Network Engineer, Certified Computer Forensic Specialist, with over 8 years of hands-on experience in the full lifecycle of system development and ongoing maintenance. Breadth of experience encompasses: physical/software security, global voice and data networking, troubleshooting, and system configuration/availability. Demonstrated ability to work with an established IT system, implement, and assure conformance to requirements, and collaborate as an integral team member to exceed customer quality expectations. Additional strengths include:

- Staff Training & Development
- Ethernet, ATM, Fiber Networks
- Router Configuration & Management
- Solid Blend of People & Technical Skills
- Workflow Automation
- Problem Analysis & Simplification
- Improving Overall System Efficiency
- Ability to Grasp & Utilize New Technology

SELECTED ACCOMPLISHMENTS

- Designed and Implemented VoIP networks running on Fast Ethernet and Gigabit Ethernet networks consisting of Fiber Optic and Twisted Pair cabling allowing free Internet based long distance calls.
- Configured and installed Microsoft NT 4.0/2000, Novell, ISA/Proxy, and Linux servers to work seamlessly in VoIP networks consisting of multiple remote locations.
- Consulted on a Windows 2000 migration consisting of 26 sites connected primarily via Frame Relay and ISDN links utilizing Cisco 1600, 1700 and 2500 series routers.
- Implemented and maintained a 16-router (mix of 1600 and 1700), 2-switch (Catalyst 1900/5000) lab accessed by students via a Cisco 2511 Access server. Consequently, the lab allowed remote configuration practice that utilized Windows 2000 and Novell Netware servers for FTP/TFTP IOS image transfers. Performed numerous password recoveries and IOS image upgrades on Cisco routers.
- Conducted numerous successful implementations of IP subnet plans including number restructuring and variable length subnet masking while utilizing virtual LANs.
- Attended the SANS 2002 seminar and acquired the entire firewall configuration and perimeter protection track. Additionally, attended Firewall Intrusion Detection and Scripting for Windows 2000/XP as well as seminars on PKI and CA deployment.
- Skillfully acted as a key liaison between technical personnel, clients, and senior management, which greatly improved mutual understanding and quicker responses on numerous long-term challenging projects. These efforts created a consensus among numerous individuals with different priorities and objectives.
- Successfully taught technical classes at companies and government facilities including: Sprint, Verizon, Wackenhut, Quaker Oats, Pepsi, Florida Department of Health, and the Cincinnati Justice Department. Subsequently, requested to teach again for many of these organizations.

PROFESSIONAL EXPERIENCE

Technically Speaking Inc. Saint Petersburg Florida 2003 to Present

Lead Engineer- Primary responsibilities include Internet architecture with an emphasis on security. Design and implementation of Client/Server networks consisting of, and not limited to, ATM, Frame-Relay, VoIP, Fast Ethernet and Gigabit Ethernet technologies along with Wireless considerations. Technical Instructor responsibilities involve classroom lab creation and delivery of PIX/Checkpoint firewall, Intrusion Detection, Signature Analysis, MCSE 2003, CCNA, CCNP, CCIP, CCIE (router/switch and security), SCNP, SCNA, and CISSP certification classes.

TLI Training (*The Linux Institute*), Miami, Florida 2001 to 2003

Technical Instructor - Principal responsibilities center on serving as a technical trainer, maintaining lab equipment, and developing security classes including Cisco Security Specialist 1 Certification, Hacker Intrusion Detection, and Signature Analysis. Responsible for classroom training in Microsoft MCSE, MCSA, MCP as well as Cisco CCNA, and CCNP certification boot camps. Proactive lab maintenance includes all aspects of router/switch operations and TFTP/Novell server administration. Developed a comprehensive mobile classroom lab environment for CCNA, CCNP, and Ciscoworks2000 as well as advanced PIX Firewall for the Cisco Security Specialist 1 certification requirements.

TRAXTEL (*a telecommunications company*), Tampa, Florida 1998 to 2001

Pre-Sales Engineer - Scope of duties consisted of working with sales staff to assess client needs/goals, formulating comprehensive implementation strategies, and overseeing deployment. Worked closely with vendors to design affordable solution for clients, while providing ongoing training and telephone technical support following implementation of 3Com voiceover IP technology. Additionally, charged with wiring LAN, installing Windows NT operating system, and configuring integration of software/hardware peripherals.

SCIENTECH SOFTWARE, Largo, Florida 1996 to 1998

Lead Technical Sales Associate - Responsible for selling technical training courses in a computer-based CD-ROM training format to companies with an IT department. Collaborated with senior management on the implementation of a technical support call center while simultaneously providing after-hours technical support for clients and performing proactive network maintenance on 2 NT4.0 servers and 22 Windows 95 clients.

BAHAMA SUN AND FUN TRAVEL, Ft. Lauderdale, Florida 1994 to 1996

Sales Manager - Sold vacation packages to clients desiring to vacation in Florida and the Bahamas. Accountable for training all sales employees and writing telemarketing scripts, as well as the installation of Windows 95 network peers and shared network printers. Additionally, performed overall maintenance on facsimile machines and copiers.

EDUCATION & PROFESSIONAL DEVELOPMENT

B.S. (candidate), Information Technology (anticipated graduation 2004)

Embry-Riddle Aeronautical University

Daytona Beach, Florida

Embry-Riddle Aeronautical University, 1992-1994

Daytona Beach, Florida

Courses in: Flight Physiology, Aviation Computer Science. And Air Traffic Control

Primarily programming with ADA and C++

Training on Eagle Tracon air traffic control simulator

Community College of Allegheny County, Pittsburgh, Pennsylvania, 1989-1992

Studies included Flight Technology

Completed classroom requirements for private, instrument, commercial, and multi-engine ratings

Received private pilot's license, 1991



Systems Engineer

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ADDENDUM

VARIOUS TECHNICAL CLASSES QUALIFIED TO TEACH
(Not a complete listing, please check with me for additional classes)

Microsoft

1561 Designing a Microsoft Windows 2000 Directory Services Infrastructure
1562 Designing a Windows 2000 Networking Services Infrastructure
1567 Pre-installing and Deploying Microsoft Windows 2000 professional
1594 Installing and Configuring Microsoft Windows 2000 File, Print and Web Server
2087 Implementing Microsoft Windows 2000 Clustering
2089 Planning for a Microsoft Windows 2000 Datacenter Server Environment
2125 Planning for a Microsoft Windows 2000 Network Environment
2148 Managing a Microsoft Windows Server 2003 Environment
2150 Designing a Secure Windows 2000 Environment
2151 Microsoft Windows 2000 Network and Operating System Essentials
2152 Implementing Microsoft Windows 2000 Professional and Server
2153 Implementing a Microsoft Windows 2000 Network Infrastructure
2154 Implementing and Administering Microsoft windows 2000 Directory Services
2159 Deploying and Managing Microsoft Internet Security and Acceleration Server 2000
2209 Updating Systems Administrator Skills from Microsoft Windows 2000 to Windows Server 2003
2210 Workshop: Updating Your Systems Engineer Skills from Windows 2000 to Windows Server 2003
2272 Implementing and Supporting Microsoft Windows XP Professional
2274 Managing a Microsoft Windows Server 2003 Environment
2273 Managing and Maintaining a Microsoft Windows Server 2003 Environment
2275 Maintaining a Microsoft Windows Server 2003 Environment
2276 Implementing a Microsoft Windows Server 2003 Network Infrastructure: Network Hosts
2277 Implementing, Managing, and Maintaining a Microsoft Windows Server 2003 Network Infrastructure: Network Services
2278 Planning and Maintaining a Microsoft Windows Server 2003 Network Infrastructure
2279 Planning, Implementing, and Maintaining a Microsoft Windows Server 2003 Active Directory Infrastructure
2520 Deploying Microsoft Windows XP Professional
2810 Fundamentals of Network Security
2830 Designing Security for Microsoft Networks

Cisco

CCNP consists of the following:

Building Scalable Cisco Internetworks Exam (BSCI 642-801)
Building Cisco Multilayer Switched Exam (BCMSN 642-811)
BCRAN Exam (BCRAN 642-821)
Internet Troubleshooting Support Exam (CIT 642-831)

CCSP consists of:

Securing Cisco IOS Networks (SECUR 642-501)
Cisco Secure PIX Firewall Exam (CSPFA 642-521)
Cisco Security Intrusion Detection Systems Beta Exam (CSIDS 643-531)
Cisco Secure Virtual Private Networks (CSVPN 642-511)
Cisco SAFE Implementation Exam (CSI 642-541 CSI)

CCIP consists of:

Building Scalable Cisco Internetworks Exam (BSCI 642-801)
Quality of service Exam (QoS 642-641)
Configuring BGP on Cisco Routers Exam (BGP 642-661)
Implementing Cisco MPLS (MPLS 640-910)

Electives for the CCIP:

Cable Communications Specialist 1 (9E0-701)*
Building Cisco Content Networking Solutions Exam (CN 640-925)
Building Cisco DSL Networks Exam (640-800)
Building Cisco Metro Optical Networks Exam (METRO 640-915)
Implementing Cisco MPLS (MPLS 640-910)
PKTEL Exam (PKTEL 640-920)
Managing Cisco Network Security Exam (MCNS 640-100)

Specialist Certifications

Cable Communications Specialist 1: Exam (9E0-701)
Content Networking Specialist v1.1: Exam (9E0-600)

Firewall Specialist:

Securing Cisco IOS Networks (SECUR 642-501)
Cisco Secure PIX Firewall Exam (CSPFA 642-521)

Cisco IDS Specialist:

Securing Cisco IOS Networks (SECUR 642-501)
Cisco Secure Intrusion Detection Systems Exam (CSIDS 9E0-100)

Cisco IP Telephony Design Specialist:

Enterprise Voice Over Data Design (EVODD 9E0-412)
Deploying Quality of Service in Enterprise Networks Exam (DQOS 9E0-601)

Cisco IP Support Specialist:

IP Telephony Exam (CIPT 9E0-441)
Cisco Voice Over IP Exam (CVOICE 9E0-431)
Deploying Quality of Service in Enterprise Networks Exam (DQOS 9E0-601)

Cisco IP Telephony Operations Specialist:

IP Telephony Troubleshooting Exam (IPTT 9E0-421)
Deploying Quality of Service in Enterprise Networks Exam (DQOS 9E0-601)

Cisco Optical Specialist:

Cisco Optical Specialist 1 Exam (COS 9E0-611)

Cisco VPN Specialist:

Securing Cisco IOS Networks (SECUR 642-501)
Cisco Secure Virtual Private Networks (CSVPN 642-511)

Cisco Wireless LAN Design Specialist:

Wireless LAN for System Engineers (WLANSE 9E0-576)

Cisco Wireless LAN Support Specialist:

Wireless LAN for Field Engineers (WLANFE 9E0-581)

Ciscoworks2000:

LAN
WAN

Checkpoint:

CCSA - Exam 156-210:

VPN-1/FireWall-1 Management I NG

CCSE - Exam 156-310:

VPN-1/FireWall-1 Management II-NG

CCSE Plus - Exam 156-510:

VPN-1/FireWall-1 Management III – NG

Internet Security Systems:

(Vulnerability and Penetration testing software)

Internet Scanner® v7.0

System Scanner® v4.2

Intrusion Detection:

Snort

Cisco Secure IDS

Other Firewall Products:

Raptor

Gauntlet

Security

Intrusion Signatures and Analysis

TCP/IP for Intrusion Detection

TCP/IP for Firewalls

Firewall Perimeter Protection and Defense In-Depth

VPNs and Remote Access

Computer and Network Hacker Exploits

Network Traffic Analysis using TCPDump

Incident Handling Step-by-Step and Computer Crime Investigation

Network Design and Performance

Hardening the Infrastructure (SCNP)

Network Defense and Countermeasures (SCNP)

CompTia: A+, Network +, Server +, Linux +