

DEREK SONTZ

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PROFESSIONAL EXPERIENCE

Technology Instructor & Curriculum Developer

Montgomery College, Montgomery County, MD

1999 to Present

- Effectively teach Cisco Certified Network Associate (CCNA), Security+, Network+, and H.I.T. certification courses at college and WDCE levels, involving hardware, software, networking and cybersecurity protocols.
- Responsible for the creation, development, and execution of curriculum for learners preparing for industry certification exams in cutting edge technology environments using Canvas LMS.
- Apply multiple instructional technologies and approaches to teaching and learning including interactive activities, simulations, hands-on labs and virtualization solutions.
- Develop assessments for game-based learning, visual aids for more effective learning, and collaborative features for better facilitating the Cisco Networking Academy technical programs.
- Created and delivered an accelerated curriculum for Cisco certification, “CCNA Complete” course.
- Manage networking equipment consisting of dozens of routers, switches, firewalls, and servers for experiential learning of networking, troubleshooting, and cybersecurity.
- Current member of the National Science Foundation CyberWatch, promoting cybersecurity education solutions for the nation.
- Attend conferences (CompTIA, 3CS, Networkers Live), program updates, and training opportunities regularly, to communicate and collaborate with, and learn best practices in teaching, learning and effective instructional technologies.

Founder & Principal Consultant

Wirelessgetaway.com, Frederick, MD

1997 to Present

- Provide reliable, cost effective business, IT services, and cybersecurity solutions for enterprise, SMB, and SOHO environments.
- Provide technical consultation and support to clients by demonstrating key product and technical expertise.
- Develop and adapt effective tools for applying cybersecurity and analysis practices.
- Collect data while analyzing results to prepare reports relating to project/program objectives.
- Create a tracking system which reports changes, trends, and implications of evolving issues.
- Design, implement and maintain specialized networks of varying sizes and configurations.

STEM Teacher & Technology Coordinator,

Montgomery County Public Schools, Rockville, MD

1995 to Present

- Expert Technology Instructor/Trainer for the Cisco Networking Academy Program using cloud and virtualized hosting.
- Project Lead the Way (PLTW) Engineering Pathway teacher of Engineering Design using Autodesk Computer-Aided Design (CAD) software for 3D modeling.
- Sponsor of an Engineering Club, competing in US FIRST competitions, 3D Printing, and Drone Command and Control through project-based learning and competitions.
- Effectively managed a variety of budgets with competing challenges.

- Developed robust career and technology education (CTE) curriculum for entrepreneurship and technology, focused on county-wide initiatives of closing the achievement gap, including the creation of authentic learning experiences.
- Developed and maintained partnerships with information technology companies and entrepreneurs, facilitating sponsorship and mentoring in the classroom.
- Developed, supervised and managed student outreach projects which brought technology to the community for underserved learners.
- Partnered with an ISP and IT company, raising awareness and encouragement of learning opportunities empowering the community members and local business.
- National Foundation for Teaching Entrepreneurship (NFTE) teacher of entrepreneurship through unique transformative experiences.
- Participated in Junior Achievement, Montgomery County Business Roundtable for Education (MBRE) to empower youth with financial literacy skills through experiential activities.
- Selected to manage an entrepreneurship program designed for students to learn financial literacy, by creating, developing, and defending successful business plans.
- A signature program development member and vocational support services team member, integrating technology into instruction and learning.
- Utilized online tools to build collaborative teams across disciplines and schools.

Professional Volunteer Efforts, Montgomery County, MD

- Partnered with Verizon (ISP), AOL (interface), and the school district to facilitate community awareness and guidance by teaching students how to refurbish desktop computers, and positively impact the achievement gap.
- ARTpreneurs Summer Workshop, Program Director.
- Develop "green" arts enterprises workshop for at-risk individuals to develop a business plan for funding, creating and selling their own eco-friendly product.
- Systems Administrator for Congregation Kol Ami, managing back-end systems and support of account administration, web site troubleshooting, and maintenance.

EDUCATION

Bachelor of Arts, General Arts and Sciences
Penn State University, State College, PA

TECHNOLOGY SKILLS

Operating Systems – Cisco IOS, Windows, Linux, MacOS, Android, IOS

Software – Autodesk Inventor (CAD), Cisco ASDM, SDM, CCP, CLI, Packet Tracer, NetLab, VMware, Microsoft Office, Quicken, Financial Software, Information Managers; end-user applications

Hardware – Cisco Routers, Switches, ASAs Firewalls, End Stations, Wireless Access Points, Structured Cabling

Network Protocols – LAN/WAN, OSI, TCP/IP; Telnet, SSH, DNS, DHCP, NAT, IPv4, IPv6, VLANs, DTP, VTP, Inter-VLAN Routing, EIGRP, OSPF, Wireless, 802.11; IDS/IPS

Security Technologies – Authentication, Access Control Lists; SSH, VPN, NetFlow, FirePower; WPA; Anti-Virus Tools (Norton, Symantec, Ghost, etc.); Access Control

Learning Management Systems – Canvas by Instructure, G Suite, Google Classroom, Edline, BEN