Aaron Friedman

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PROFILE:

- 12+ years of practical experience with Networking, Routing and Switching, VoIP, and Wireless concepts coupled with a Bachelor's degree in Applied Networking and System Engineering
- High integrity, dependable, enthusiastic, with excellent written and verbal communication skills
- Ability to work successfully with others as part of a team
- Able to meet deadlines and work under pressure
- Extensive work experience with medical, government, and law enforcement organizations

EDUCATION AND CERTIFICATIONS:

Rochester Institute of Technology, Rochester, NY
Bachelor of Science - Applied Networking and Systems Engineering
Graduation – February 2009
Dean's List 2007 – 2009

Cisco Certified Network Associate (CCNA), Routing and Switching
Current (2020-2023)
Certificate Verification # WVQMBE8CFPV4QL59

KNOWLEDGE:

- **Hardware:** Switches, Routers, Firewalls, VoIP systems, Wireless Controllers, and Access Points from a wide variety of vendors including Cisco, Juniper, HP, Enterasys, Sonicwall, MyTel, and Extreme Networks
- **Software:** Network monitoring tools (Solarwinds, Cisco Prime Infrastructure, and inSSIDer), Network auditing tools (Nessus, Firewalk, Hailstorm, Cain & Abel, Wireshark), Microsoft Visio (detailed network diagrams)
- **Languages:** Java, Visual Basic, Bash Scripting, HTML, PHP
- **Environments:** Windows, UNIX, Linux, MAC OS
- **Protocols and Standards:** BGP, GLBP, HSRP, CDP, RIP, OSPF, STP, DHCP, Windows and Linux networking, FTP, SSH, SNMP, VoIP (SIP), CallManager, VLANs, QoS, Wireless technologies (802.11a/b/g/n/ac/ax, 802.11e QoS, Cisco wireless VoIP phones)
- **Auditing:** Experience with network security auditing, including firewalls, routers, switches, servers, and workstations using modern tools and services (Firepower, Cisco Umbrella, Varonis, FireEye, SIEM, log aggregation, etc.), penetration testing and review

Monroe County Information Services, Rochester, NY www.monroecounty.gov
Network Engineer I / Network Infrastructure and Telephony Team Manager
May 2016 – Current

- **Senior Network Engineer and Manager for Network Infrastructure and Telephony**
  - Oversee all of Monroe County's data, security, and telephony networks, including all hardware infrastructure, preventative maintenance, and break/fix
  - Management and planning for Network and Telephony team projects and work
  - Responsible for high-level firewall, core router, wireless, and VPN configuration
  - Design, implementation, and coordination of all network hardware refreshes and upgrades
  - Extensive knowledge and experience with work involving HIPAA, Law Enforcement, 911, and other high profile community projects visible to the public
  - Management, mentoring, and task delegation for a team of 7+ employees across network and telephony teams
  - Interface with state and local entities, vendors, and remote sites to facilitate resource sharing and connectivity to county and state-provided resources (VPN/Fiber)

  - **Projects of Note:**
    - Frederick Douglas Greater Rochester International Airport (GRIA)
      - Wireless Upgrade and Deployment – Entire Campus (2018)
      - Full Security, Video, and Facial Recognition network hardware refresh and upgrade to 10/25Gbps fiber (2020/2021)
    - Monroe County Security/Video Network
      - Refresh of entire Video/Security network infrastructure and upgrade to 10/25Gbps fiber (2018/2019)
    - Redundant Internet Upgrade
      - 1 Gbps BGP/GLBP load-balanced connection with multiple ISPs for redundancy (2018/2020)
    - Monroe County Department of Transportation
      - Full refresh of DOT camera network infrastructure, including core router, fiber aggregates, and edge firewalls
    - Monroe Community Hospital
      - Network and datacenter refresh to Cisco hardware (2020/2021)

ECC Technologies, Penfield, NY www.ecctec.com
Network Engineer
May 2009 – May 2016

- **Primary contract to manage Monroe County LAN/WAN**
    o Daily troubleshooting, upgrades, maintenance, and monitoring of LAN and WAN systems and equipment across multiple departments and geographic locations
    o Implement and maintain networks and security measures in a variety of settings including health-care (HIPAA), government, and law enforcement
    o Firewall/ASA configuration, deployment of hardware for remote site-to-site VPN solutions for local towns, organizations, and county departments
    o Organizing and implementing inter-network connections to New York State, DCJS, and other remote agencies and vendors via fiber optics and VPN

    o **Projects of Note:**
        ▪ Complete network hardware refresh to Cisco from Enterasys in 2012/2013, including new core routers, firewalls, and closet switches
        ▪ Design, programming, and installation of new edge routers
        ▪ County-wide wireless ESS network design and implementation
        ▪ Extensive work on back-end hardware implementation for wireless VPN connection for Monroe County Sheriff and local police organizations
        ▪ VPN access for local towns and municipalities
          Firewall and ASA configuration and deployment
        ▪ Drawing of all detailed network topology diagrams

- **Additional managed accounts:**
    o SUNY College at Brockport
        ▪ Full network swap Summer 2014
        ▪ Core router upgrade to Cisco Nexus 7004
        ▪ Programming of all network hardware prior to installation
        ▪ Wireless controller implementation and wireless network upgrade to 802.11ac campus wide
    o Auburn Enlarged Central School District (AECSD)
        ▪ Design and installation of district-wide upgrade to 10Gbps fiber
        ▪ Programming and installation of controller-based wireless solution
        ▪ On-going firewall and networking support for AECSD IT staff
    o BNIA (Buffalo Niagara International Airport)
        ▪ Programming and installation of HP switches for network expansion
    o NFTA (Niagara Falls Transit Authority) network support
    o Monroe County Jail Video network and wireless expansion projects
        ▪ Deployed new PoE switches to County Jail to provide more video coverage for inmate monitoring
        ▪ Design and implementation of wireless expansion for both county jails