**Sam Sondos**

**PROFESSIONAL SUMMARY**

Network Engineer with 21 years of experience specializing in infrastructure design for **Fortune 500 enterprises** and **telecommunications sector**.

* Built and optimized networks supporting **mission-critical financial operations** and **large-scale cloud infrastructures**.
* Boosted network SLA from 99.95% to 99.99% by implementing **redundant architecture and automated failover systems** across 25 data centers, supporting financial trading platforms for **Fortune 500 clients**
* Delivered key infrastructure projects including implementation of VMware-based private cloud hosting 3000+ virtual machines for **enterprise clients**, and redesign of core network systems for **major telecom providers** like Comcast and Charter Spectrum.
* Technical lead for **$1.5M cost optimization initiative** across data center operations.
* Expertise includes Cisco enterprise solutions (CCNA certified), cloud architecture, and network security. Implemented high-availability infrastructure achieving "five nines" uptime for **critical transport systems** across 25 locations.
* Currently advancing expertise in Cybersecurity through the MS program at **Rowan University**.

**PROFESSIONAL EXPERIENCE**

**Network Engineer** **May 2020 – Oct 2024**

**Persistent Telecom Inc. | Monmouth Junction, NJ USA**

*Provider of* ***secure private mobile networks*** *and* ***high-bandwidth satellite solutions*** *for* ***enterprise telecom infrastructure***

* Directed **$5M transformation program** delivering **private LTE networks** to **200+ enterprise customers**, achieving **"five nines" uptime** for **defense contractors** while reducing average deployment from months to weeks through automated **Cradlepoint/Pepwave** implementation
* Built **enterprise monitoring platform** using **PRTG** and custom automation, reducing system recovery from hours to minutes and saving **$2M annually** for **satellite communications clients**
* Managed team of 4 engineers to build **VMware virtualization platform** running **3000+ VMs**. Delivered **$1.5M yearly savings** while maintaining **"four nines" availability** for **mission-critical telecom infrastructure**
* Designed **nationwide private cellular network** serving **50,000+ users**. Achieved **"five nines" roaming reliability** using core mobile components (**DRA**, **STP**, **HLR**)
* Led company's move to **Linux-based Quortus platform** for **private 5G networks**, winning **$10M in new contracts** from **manufacturing** and **secure facilities clients**
* Created **enterprise monitoring system** using **PRTG** and custom analytics for **100+ satellite ground stations**, cutting incident fix time from days to hours

**Technologies:** Cradlepoint, Pepwave, DRA (Diameter Routing Agent), STP (Signal Transfer Point), HLR (Home Location Register), Private LTE/5G, PRTG, VMware, ESXi, Linux, Quortus, Custom automation scripts, Docker, Kubernetes, Ansible, Python, Bash, AWS/Azure, Cisco networking, Fortinet, Palo Alto, Nagios/Zabbix, Git, Jenkins, ELK stack

**Network Engineer** **May 2012 – Apr 2020**

**Prince Telecom | Blackwood, NJ, USA**

*Part of* ***MasTec Advanced Technologies****, delivering infrastructure solutions for* ***major US telecom providers*** *including* ***Comcast*** *and* ***Charter Spectrum***

* Managed network operations supporting **$500M+ annual revenue** from **cable TV and internet services** across Northeast region, serving **500,000+ subscribers** in 6 states
* Built high-availability network for **Comcast business services** handling **1000+ enterprise devices** and **100 Gbps traffic**. Achieved **"five nines" uptime** using **Cisco** and **HP** solutions, saving **$3M** in prevented downtime
* Designed wireless solution for **multi-dwelling properties** using **Wi-Fi 6**, upgrading **10,000+ residential users** from 100Mbps to 1Gbps speeds and reducing support calls by half
* Implemented **Cisco Prime Infrastructure** for network monitoring, cutting average repair time from 2 days to 4 hours for **cable network operations** and saving **$1M** in operational costs
* Built **VMware virtualization platform** with **500+ VMs** enabling same-day service deployment for **Charter Spectrum business clients**, up from previous 2-week timeline
* Led security compliance project using **Cisco ASA** and **HP solutions**, meeting **FCC requirements** across **200+ network locations** and avoiding potential penalties of **$2M+**

**Technologies:** Cisco routers/switches, Cisco ASA, HP networking, Wi-Fi 6 (802.11ac/ax), Cisco Prime Infrastructure, VMware ESXi, High-availability networks, Network security, Network monitoring

**Network Voice Engineer** **Sep 2010 – Apr 2012**

**QUALITY MOBILE LLC | North Brunswick, NJ**

***Verizon Wireless authorized service provider*** *serving* ***enterprise telecommunications*** *market in Central New Jersey*

* Built and optimized **Verizon CDMA voice infrastructure** for **$2M+ annual revenue** service operation, supporting **2,000+ enterprise users** across **medical and emergency services**
* Redesigned **QoS architecture** cutting voice latency from 2-3 seconds to under 100ms, enabling **911 dispatch centers** to handle **5,000+ emergency calls** monthly
* Led migration from **legacy CDMA** to **new Verizon platforms** for **50+ business clients**, completing transitions with zero service interruption and retaining **$1.5M** in annual contracts
* Created **24/7 technical support system** handling **200+ monthly cases** with 1-hour response time for **critical wireless services**, achieving **98% customer retention**

**Technologies:** CDMA, Verizon Wireless systems, QoS, Voice infrastructure, Network latency optimization, Technical support systems

**Computer and Network Engineer** **Sep 2003 – May 2010**

**JORDAN CUSTOMS DEPT | Amman, Jordan**

***National customs and border control agency*** *managing* ***international trade operations*** *and* ***revenue collection***

* Designed and built **nationwide customs network** connecting **25 border checkpoints**, enabling processing of **$10B+ annual imports** and **$500M+ in duty collections**
* Created **high-availability infrastructure** supporting **4,500 government employees** across **50+ locations**, achieving three years of uninterrupted operations for **critical border control systems**
* Built **metro-Ethernet backbone** reducing customs processing time from 3 days to same-day clearance, handling **10,000+ daily international shipments** worth **$30M+**
* Implemented **Cisco EIGRP load-balancing** for **customs applications**, cutting document processing from hours to minutes and saving **$2M** in overtime costs
* Led **$5M modernization project** of **revenue collection system**, deploying secure payment infrastructure handling **$1M+ daily customs duties**
* Built **disaster recovery system** for **national customs database** with 15-minute failover, protecting records of **1M+ annual trade transactions** and **duty payments**

**Technologies:** Cisco routers/switches, EIGRP, Metro-Ethernet, High-availability systems, Disaster recovery, Load balancing, Network security, Database infrastructure

**EDUCATION**

* **MS in Cybersecurity.** Rowan University, NJ, USA
* **BS in Computer Engineering.** Odessa State Academy
* **MS in Computer Systems and Networks Engineering.** Odessa State Academy

**SKILLS**

**Networking:** Switching, Routing, IP, TCP/UDP, OSPF, EIGRP, BGP, IPv6, IPSec, SD-WAN, MPLS, LAN/WAN

**Security:** Firewalls, 802.1X, RADIUS, TACACS, ISE, Encryption protocols

**Voice over IP:** SIP, MGCP, H.323, WebRTC, RTP, SRTP, Trunks, QoS, Delay, Jitter, packet loss

**Cloud & Virtualization:** VMware, ESXi, Cloud infrastructure.

**Programming & Automation:** Python, R and Java.

**Monitoring & Management:** Cisco Prime, DNA Center.

**Documentation:** Visio, Word, Excel, Outlook, PowerPoint, Office 365

**Leadership:** Team management, Mentoring, Cross-functional collaboration.