

# JOSEPH HANNAH III

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## SUMMARY

Network Security Engineer with hands-on experience designing and deploying enterprise network infrastructure in PCI CPP and ISO-compliant environments. Skilled in multi-site network architecture, production migrations with zero downtime, layered security zone design, microsegmentation, and cross-functional collaboration with global teams.

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## WORK EXPERIENCE

**Network Security Engineer** | TAG Systems (AustriaCard) | Eatontown, NJ *August 2024 – Present*

- Architecting and deploying a new production facility network from the ground up, including security zone design, equipment selection, IP addressing scheme, and cabling infrastructure with PCI CPP-compliant remote HSA administration via site-to-site IPsec VPN
- Migrating a legacy flat production network to a fully segmented, multi-zone architecture while maintaining continuous uptime across active card personalization operations, including VLAN redesign, IP scheme migration, switch cutover, and firewall policy migration
- Designed a nested, layered firewall architecture enforcing microsegmentation across discrete security zones (edge, DMZ, and HSA layers) with least-privilege inter-zone routing and QoS policies to prioritize production traffic
- Serve as the network subject matter expert for PCI CPP and ISO audits, leading the network infrastructure review, preparing technical documentation and evidence packages for assessors, and maintaining change management records across a multi-site environment
- Collaborate with global engineering and operations teams across multiple sites to coordinate network deployments, infrastructure planning, and compliance initiatives
- Led evaluation and selection of replacement switching infrastructure to address end-of-life hardware, deprecated cryptographic controls, and long-term compliance audit exposure, assessing platform capabilities, PoE requirements, and stacking architecture against production requirements
- Implemented high-security network controls throughout all zones including Dynamic ARP Inspection, port security, IPv6 RA Guard, DHCPv6 Guard, and LACP bonding on security appliance and hypervisor uplinks

**Network Administrator** | Monmouth Cyber | Brick Township, NJ *September 2022 – August 2024*

- Managed enterprise network infrastructure for commercial clients across multiple industries, configuring and deploying Fortinet FortiGate firewalls, Cisco and Ubiquiti switching, and wireless infrastructure
- Planned and executed network build-out projects including structured cabling, firewall policy design, and wireless deployments, while resolving escalated technical issues from lower support tiers on-site and remotely
- Provided on-call emergency support and developed strategic project and compliance improvement plans for managed client environments

*IT Technician, Advanced Support*

*IT Technician*

**IT Manager** | Jenkinson's South Inc | Point Pleasant, NJ *February 2022 – September 2022*

- Managed IT infrastructure and projects for a high-availability entertainment campus, including STP/UTP and fiber cabling installation, risk assessment, and IT strategy planning

*IT Technician*

**Fulfillment Expert** | Target | Toms River, NJ *September 2021 – January 2022*

**Arcade Technician** | Casino Beach Pier | Seaside Heights, NJ *May 2017 – September 2020*

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## CERTIFICATIONS & SKILLS

- **Certifications:** CompTIA ITF+, CompTIA A+, Fortinet NSE 1/2/3, CCNA (In Progress)
- **Firewalls:** pfSense, Fortinet FortiGate, Cisco FMC (policy management), Cisco FTD (deployment experience)
- **Switching & Wireless:** Cisco Catalyst (IOS), Ubiquiti UniFi, Netgear, EnGenius, TP-Link
- **Protocols:** IPsec/VPN, VLANs, LACP/802.3ad, Dynamic ARP Inspection, NAT, STP, PGP
- **Security & Compliance:** PCI CPP, ISO compliance, HSM deployment and integration, Cloudflare Zero Trust, network segmentation, Bitdefender
- **Platforms & Tools:** Proxmox, VMware, TrueNAS, Windows Server, Ubuntu Server, Linux, Splunk, IT Glue, Halo PSA, Ninja RMM, ConnectWise
- **Home Lab:** Enterprise-grade environment featuring pfSense, Proxmox, TrueNAS, 10GbE infrastructure, self-hosted applications, and a 3-2-1 backup architecture