## CAI CONTACT

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## <CALVIN MCGUIRE>

## SUMMARY

• Experienced Network Fiber Analyst Engineer with expertise in OPGW & ADSS fiber optic cables, ensuring seamless installation, maintenance, and troubleshooting of fiber networks.

• Skilled in updating fiber records, managing documentation using Excel, GIS software, and Bluebeam Revu for efficient markup, review, and collaboration on engineering drawings and network plans.

• Proficient in fiber maintenance, including splicing, fusion, testing with OTDR, power meters, and troubleshooting network issues to ensure reliable connectivity.

• Hands-on experience with GIS and CAD for designing, mapping, and planning fiber infrastructure, leveraging Circuit Vision for circuit management and network analysis.

## SKILLS

| SKILL | YEARS USED | LAST USED |
|---|---|---|
| Considerable knowledge of networking and hands-on working experience with enterprise networking infrastructure, routers, switches, and firewalls including Fiber, Splicing, Otdr | 3+ | 2025 |
| Considerable knowledge of fiber optic systems and hands-on working experience with fiber installation, splicing, and testing equipment with Fiber, Splicing, Otdr | 3+ | 2025 |

| | | |
|---|---|---|
| Experience designing and implementing cloud infrastructure solutions using enterprise-grade platforms and containerization technologies including Aws, Azure | 3+ | 2025 |
| Experience creating environments for compliance with networking security architecture policies, and standards with Cisco | 3+ | 2025 |
| In-depth experience designing, installing and configuring software applications and development environments with Aws, Azure | 2 | 2023 |
| Experience performance tuning, monitoring and collecting statistics metrics collection, and disaster recovery with Fiber, Splicing, Otdr | 3+ | 2025 |
| Demonstrated ability to diagnose, troubleshoot and resolve complex technical issues in enterprise environments including Fiber, Splicing, Otdr | 3+ | 2021 |
| Experience managing complex technical projects with cross-functional teams and stakeholder coordination with Fiber, Fiber | 8+ | 2025 |
| Experience creating detailed technical documentation, procedures, and | 3+ | 2025 |

| maintaining accurate project records with Fiber, Fiber | | |
|---|---|---|
| Demonstrated ability to diagnose, troubleshoot and resolve complex technical issues in enterprise environments | 8+ | 2025 |

## EMPLOYMENT HISTORY

**Tek One, Richmond, VA**                                  **Aug 2023-Aug 2025**
**Network Field Technician**

- Network Field Technician
- Managed fiber installation, termination, and maintenance, ensuring accurate fiber records, documentation, and network optimization using Excel for data tracking and analysis.
- Designed, configured, and troubleshot enterprise LAN/WAN environments, including routing, switching, and wireless access points (WAPs).
- Implemented cloud networking architectures, including VPN and routing configurations for cloud connectivity and redundancy.
- Oversaw hardware and cabling installations, including security cameras and communication circuits, while supporting Microsoft products like Teams, SharePoint, and Power Automate for efficient workflow management.
- Monitored and ensured compliance with information security and network architecture policies and standards.
- Performed fiber optic splicing and fusion and conducted testing using OTDR and power meters to ensure signal integrity and network performance.
- Deployed and managed Cisco/Meraki SD-WAN solutions, improving WAN performance, security, and visibility across multi-site enterprise networks.
- Installed, upgraded, and maintained enterprise routers and switches ensuring network availability and optimal performance.
- Performed capacity planning, performance tuning, and implemented disaster recovery procedures for business continuity.
- Designed fault-tolerant network architectures ensuring high availability and minimal downtime across critical enterprise systems.
- Configured and optimized multicast routing and QoS policies to enhance real-time application performance and voice/video quality.
- Utilized SNMP and cloud-based monitoring tools for performance tracking, metrics analysis, and proactive fault detection.
- Performed network engineering, design, and implementation for enterprise LAN/WAN infrastructure to meet scalability and performance objectives.
- Implemented and troubleshot routing and switching protocols including OSPF, EIGRP, BGP, VLANs, STP, VTP, EtherChannel, and HSRP.
- Configured and managed VPN concentrators, firewalls, and secure remote access solutions to protect enterprise data.
- Created and maintained detailed network topology diagrams and architecture documentation using Microsoft Visio and Bluebeam Revu.

• Monitored network performance using SNMP tools and analyzed statistics/metrics for proactive maintenance.

• Ensured adherence to enterprise IT and security compliance standards during design and implementation.

• Implemented Cisco digital network architecture, installed and troubleshot network equipment, including wireless communications, VoIP, and various telecom technologies such as T1, DS-3, MPLS, and ISDN.

• Used Bluebeam Revu to annotate fiber installation schematics and document field modifications for real-time project updates.

• Created and maintained digital markups of LAN/WAN layouts to support Cisco architecture deployments and telecom circuit installations.

• Streamlined communication between field and engineering teams by embedding site photos and notes directly into Bluebeam PDFs.

• Applied status indicators and custom stamps to fiber routing documents to track installation progress and ensure compliance.

**Network Analyst Technician**                     **Sept 2021-Jul 2023**
**NTS**

• Network Analyst Technician

• Designed and implemented fault-tolerant and scalable network architectures, ensuring high availability and disaster recovery capabilities across enterprise environments.

• Collaborated with OEMs, component manufacturers, and cross-functional teams to support equipment integration, network upgrades, and cloud network topology development for hybrid environments (AWS/Azure).

• Monitored network metrics using SNMP and cloud-based monitoring tools, conducted capacity planning and performance tuning, and ensured compliance with enterprise IT and information security standards.

**Network Analyst Technician**                     **May 2018-Aug 2021**
**One Data Stop**

• Network Analyst Technician

• Performed fiber optic splicing, fusion, and testing using OTDR, power meters, light sources, and VF for troubleshooting and network optimization.

• Managed circuits, equipment, and alarms, using Circuit Vision to monitor network status, detect anomalies, and escalate issues for resolution.

• Applied Cisco best practices for network topology design, VLAN segmentation, IP addressing, and scalable infrastructure planning.

• Implemented and troubleshot routing and switching protocols including ARP, CDP, OSPF, EIGRP, BGP, VTP, HSRP, and multicast routing for efficient and resilient network operations.

• Monitored network devices and systems for compliance with enterprise IT security, architecture policies, and fault-tolerance standards.

• Established and maintained voice, data, and cloud network connectivity, ensuring proper documentation and updating fiber records using Excel and Visio.

• Configured and managed VPN concentrators, firewalls, and IPsec tunnels to ensure secure and reliable remote access and inter-site connectivity.

• Implemented Access Control Lists (ACLs) and firewall policies to safeguard enterprise data and maintain secure network segmentation.

• Managed circuits, equipment, and alarms, using Circuit Vision to monitor network status, detect anomalies, and escalate issues for resolution.

- Applied Cisco best practices for network topology design, VLAN segmentation, IP addressing, and scalable infrastructure planning.
- Implemented and troubleshot routing and switching protocols including ARP, CDP, OSPF, EIGRP, BGP, VTP, HSRP, and multicast routing for efficient and resilient network operations.
- Monitored network devices and systems for compliance with enterprise IT security, architecture policies, and fault-tolerance standards.
- Established and maintained voice, data, and cloud network connectivity, ensuring proper documentation and updating fiber records using Excel and Visio.
- Configured and managed VPN concentrators, firewalls, and IPsec tunnels to ensure secure and reliable remote access and inter-site connectivity.
- Implemented Access Control Lists (ACLs) and firewall policies to safeguard enterprise data and maintain secure network segmentation.
- Conducted capacity planning, performance tuning, and disaster recovery testing using SNMP-based and cloud monitoring tools to identify and resolve bottlenecks proactively.
- Created detailed network topology diagrams and scalable architecture documentation using Microsoft Visio, Bluebeam Revu, and Excel for accurate recordkeeping and change management.
- Designed and implemented fault-tolerant and redundant network architectures to minimize downtime and ensure service continuity.

**McGuire Woods - Apr 2018**                                                     **Aug 2008**

- Project Manager/ Network Analyst
- Configured and maintained site-to-site and remote-access VPNs using IPSec and SSL technologies to ensure secure remote connectivity.
- Conducts inspections and walkthroughs to verify that subcontractor work meets design specs, codes, and client expectations.
- Troubleshot network performance issues, including routing, VLAN configuration, and inter-site connectivity.
- Identify deficiencies or deviations in workmanship or materials and ensure corrective actions are taken.
- Maintained and secured the building, monitoring systems daily while coordinating the upkeep of all machinery and fiber-related equipment.
- Designed scalable and fault-tolerant enterprise network topologies integrating LAN/WAN, fiber backbone, and wireless infrastructure.
- Monitored network and security systems to ensure compliance with organizational standards and security best practices.
- Created and maintained network topology and configuration diagrams using Microsoft Visio and Lucidchart to support change control and troubleshooting.
- Maintained version-controlled configuration files and equipment inventories to support change management.
- Enforced network segmentation, ACLs, and firewall rules to maintain system integrity and data protection.
- Maintained organized documentation of fiber-related components and building systems using Bluebeam Sets for streamlined access.
- Supervised technical staff and contractors during fiber installation and maintenance projects, ensuring adherence to safety standards and project timelines.

• Performed network performance tuning and optimization to enhance throughput and minimize latency.

• Delegated tasks and provided hands-on guidance to team members, fostering a collaborative work environment and improving operational efficiency.

• Conducted network performance monitoring, metrics collection, and disaster recovery testing to ensure operational continuity.

• Conducted performance evaluations and coordinated training sessions to enhance team capabilities in fiber infrastructure and building systems management.

• Reviews project plans, submittals, and documentation to confirm readiness and compliance before execution.

Please list the candidate's relevant employment history.

## EDUCATION

**Bachelor's Degree - Science Information Technology/ Networking Secu...**
2017

University, Richmond, VA 06/2017
  • OSHA Confined Space, 10 & 30.

## CERTIFICATIONS

  • Bachelor's Degree - Science Information Technology/ Networking Security Strayer University, Richmond, VA 06/2017
• OSHA Confined Space, 10 & 30.

• OPGW & ADSS

• Fiber Splicing

• Fiber Maintenance

• OTDR Testing

• Circuit Vision

• GIS Software

• AutoCAD

• Bluebeam

• Excel

• Fiber Records

• Network

• Troubleshooting

• LAN/WAN

• VoIP

• Cisco Routing

• Switch

• Configuration

• Cabling Installation

• Data Entry

• Equipment

- Monitoring
- Documentation
- Security Systems
- Cloud Networks
- Proficient in Microsoft Office: Word, Outlook, and Excel
- Critical Thinking and Problem-Solving Complex Systems
- Interpersonal Communication
- Management