

Ming Hopkins

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SUMMARY

Dedicated Network & Controls Engineer with two years of experience in designing and deploying communication pathways for solar plant operations. Successfully established secure connections using VPNs, routers, and firewalls while aligning site connectivity to customer standards. Demonstrated expertise with SCADA systems and industrial protocols, ensuring operational reliability and effective troubleshooting. Emphasized collaboration through partnerships with IT teams, delivering prompt resolutions and maintaining documentation. Passionate about enhancing network performance, supporting scalable solutions that drive efficiency and business continuity. Eager to contribute skills toward impactful energy solutions.

EXPERIENCE

Network Engineering Intern

June 2025 - Present

Innovate Networks

Memphis, TN

Engaged as a Network Engineering Intern focused on enabling seamless connectivity across multiple solar sites by innovating IP configurations and routing strategies. Collaborated closely with various stakeholders to enhance security measures pertaining to network access and data transport.

- Designed and implemented innovative network configurations, boosting connectivity at solar sites significantly.
- Documented and systematized IP addressing schemes complying with customer requirements, optimizing route efficiency.
- Configured and troubleshot equipment securely for remote access, streamlining incident response processes.
- Worked directly with IT professionals to assess network performance, employing diagnostic tools to rectify issues swiftly.
- Creative reports delivered insights on network statuses, aiding decision-making for improvements.
- Contributed to templates optimized for onboarding new network setups, helping simplify future deployments.

Network Support Technician

August 2024 - May 2025

SolarLink Technologies

Knoxville, TN

Performed as a Network Support Technician, enhancing the deployment of networking devices throughout diverse solar installations focused on mitigating risks associated with connectivity. Coordinated effectively with operations teams to meet high reliability standards.

- Facilitated deployment alongside maintenance processes for networking equipment enhancing technology integration.
- Monitored and diagnosed networking challenges rigorously using advanced diagnostic utilities.
- Supported configurations essential for SCADA systems, ensuring efficient communication between field devices.
- Created detailed documentation concerning design compliance, reinforcing adherence to change management routines.
- Ensured stringent alignment with operational standards through consistent collaborative efforts with teams.
- Improved processes for resolving incidents, which minimized operational downtimes remarkably.

LEADERSHIP & AWARDS

- Dean's List, University of Tennessee (2023, 2024)
- 2nd Place, Statewide Engineering Hackathon (2025)

EDUCATION

Bachelor's Degree in Electrical Engineering

2026

University of Tennessee GPA: 3.8

Knoxville, TN

Coursework: Electronics, Circuit Analysis, Signal Processing, Telecommunications

CERTIFICATIONS

- Cisco Certified Network Associate (CCNA) 📅 2025
- CompTIA Network+ 📅 2025

TECHNICAL SKILLS

- **Routing Technologies:** OSPF, RIP, BGP
- **Firewall Technologies:** Cisco ASA, Fortinet, Palo Alto
- **VPN Types:** SSL, IPSec, L2TP
- **SCADA Protocols:** Modbus, DNP3, OPC UA
- **Network Diagnostic Tools:** Wireshark, PingPlotter, SolarWinds
- **Monitoring Tools:** Nagios, PRTG, Zabbix

- **Configuration Management:** Ansible, Puppet, Chef
- **Documentation Standards:** IEEE, ITIL, COBIT
- **Technical Presentation Tools:** PowerPoint, Prezi, Visio
- **Project Management Frameworks:** Agile, Scrum, Waterfall

SKILLS

- Networking
- IP Addressing
- Communication
- Industrial Protocols
- SCADA Systems
- Routing
- Security
- Workshop Communication
- VPNs
- Troubleshooting
- Connectivity
- Incident Management
- Firewalls
- Documentation
- Diagnostic Tools
- Performance Monitoring

PROFESSIONAL AFFILIATIONS

- Member, IEEE Student Chapter, University of Tennessee
- Volunteer, Solar Energy Awareness Program

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST