



# Caleb Miranda

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## SUMMARY

Driven Principal Network Engineer with over two decades in network and systems engineering. Focused on optimizing network performance while ensuring alignment with strict cybersecurity standards. Proven track record of enhancing operational efficiency through rigorous evaluations and thoughtful documentation creation. Seasoned in leading technical training initiatives, contributing to skills development within teams. Well-versed in recommending strategic architecture adjustments that improve communication pathways. Committed to refining engineering processes to meet mission-critical demands and support military operations effectively.

## EXPERIENCE

### Principal Network Engineer

January 2020 - Present

CyberTech Solutions

*Boston, MA*

Shortly after joining as Principal Network Engineer, led a cross-functional team focused on network enhancement projects and compliance oversight for various military contracts. Defined innovative network solutions while streamlining workflows and elevating technical documentation practices.

- Spearheaded network performance reviews and evaluations, which optimized engineering processes while aligning with government standards.
- Developed comprehensive technical documentation, enhancing team understanding of system characteristics and boosting management reporting accuracy.
- Conducted thorough end-to-end system validations to significantly improve communication pathways critical to military operations.
- Delivered technical training to personnel, enhancing collective capabilities in network engineering and fostering collaborative relationships.
- Analyzed network requirements and successfully recommended architectural upgrades that drove measurable improvement in performance metrics.
- Diagnosed and promptly resolved critical network issues, ensuring sustained operational continuity across multiple military installations.

### Senior Network Engineer

March 2015 - December 2019

NetSecure Inc.

*Worcester, MA*

As Senior Network Engineer, played a pivotal role in formulating and enforcing robust cybersecurity policies across network operations. Collaborated with multidisciplinary teams to foster seamless integration of emerging technologies into existing frameworks.

- Directed the rollout of extensive cybersecurity policies throughout all network operations, achieving full compliance with industry standards.
- Installed and configured advanced network operating systems, resulting in marked improvements in infrastructure reliability and performance consistency.
- Monitored ongoing network workload and capacity, providing strategic recommendations that uplifted operational efficiency by establishing new benchmarks.
- Worked closely with cross-functional departments to ensure Agile software development practices harmoniously integrated with cutting-edge technologies.
- Created and maintained detailed network design diagrams, markedly enriching clarity in stakeholder communications regarding system updates.
- Executed troubleshooting procedures for various network technologies including VPN setups, ensuring minimal downtime and optimal data security.

### Network Engineer

July 2010 - February 2015

TechSolutions Group

*Cambridge, MA*

In the Network Engineer role, managed successful configurations and stringent security protocols in line with military communication standards. Actively contributed to departmental efficiencies via methodical performance testing and proactive failure identification strategies.

- Oversaw network configuration and security protocol management, maintaining unwavering compliance with established military communication standards.
- Supported the acquisition process for innovative network management systems, strategically enhancing operational oversight capabilities.
- Conducted rigorous performance testing on network pathways, systematically identifying potential failures before they disrupted services.
- Utilized effective training techniques to equip junior engineers with knowledge related to essential network management tools and protocols.
- Developed and meticulously tested recovery procedures for network outages, dramatically improving response times in emergency scenarios.
- Refined documentation processes related to network changes, yielding enhanced accuracy in technical records and compliance audits.

## LEADERSHIP & AWARDS

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- Department of Defense Achievement Award for Excellence in Network Performance, 2022
- Cybersecurity Compliance Recognition from Network Security Association, 2021

## EDUCATION

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### Bachelor of Science in Computer Engineering

2006

University of Massachusetts Amherst GPA: 3.5

Amherst, MA

*Coursework: Computer Networks, Cybersecurity, Systems Engineering, Technical Documentation*

## CERTIFICATIONS

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- Certified Information Systems Security Professional (CISSP) 📅 2021
- Cisco Certified Network Professional (CCNP) 📅 2019

## TECHNICAL SKILLS

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- **Network Protocols:** BGP, OSPF, EIGRP, MPLS, SNMP
- **Security Technologies:** IPsec, MACSec, Cisco TrustSec, DMVPN
- **Operating Systems:** Linux, Windows, UNIX, Solaris
- **Virtualization Tools:** VMware, Hyper-V, KVM
- **Communication Systems:** VoIP, RTP, RSTP
- **Network Management Tools:** SolarWinds, Wireshark, PRTG
- **Cloud Services:** AWS, Azure, Google Cloud
- **Documentation Tools:** Visio, Lucidchart, Microsoft Word
- **Testing Tools:** JMeter, LoadRunner, Ixia
- **Project Management Tools:** Trello, Asana, JIRA

## SKILLS

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- Network Engineering
- Cybersecurity
- Systems Engineering
- Technical Documentation
- Performance Analysis
- Troubleshooting
- Agile Methodologies
- Network Design Diagrams
- Program Support
- Integration Services
- Validation Processes
- Backup Procedures
- Network Management
- Infrastructure Upgrades
- Communication Pathways

## PROFESSIONAL AFFILIATIONS

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- Member, Institute of Electrical and Electronics Engineers (IEEE)
- Participant, International Conference on Networking and Communication

## LANGUAGES

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- English (Native)
- Spanish (Intermediate)

## ADDITIONAL INFORMATION

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

## REFERENCES

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AVAILABLE ON REQUEST