

# Sebastien De Groof *Network Engineer*

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## Summary

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Results-driven network engineer with 4 years of experience in switching, routing, virtualization, and telephony. Detail-oriented and self-motivated to modernize infrastructure with right-sized solutions to anticipate business needs through automation and flexible design. Proactive in improving IT systems and collaborative processes to maximize scalability and maintainability. Active DoD TS/SCI clearance.

- Available for DoD Skillbridge internship starting January 2023
- Available for full-time employment starting June 2023

## Certificates

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**Cisco Certified Network Professional - Enterprise**

*Nov 2019*

**Cisco Certified Specialist - Data Center Core**

*Mar 2022*

**VMware Certified Professional - Data Center  
Virtualization**

*Dec 2020*

**Certified Information Systems Security Professional**

*Jun 2019*

## Professional Experience

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2020/06 – present  
Wahiawa, HI

### Senior Network Engineer

*US Army*

- Lead network and transmission engineer for 5000-user military organization with infrastructure comprising of over 70 tactical satellite communication branches. Personally responsible for 18 nodes supporting general headquarters staff.
- Engineered and implemented end-to-end QoS marking policy employing Palo Alto firewall orchestration with Panorama and Cisco router automation with Ansible.
- Designed and deployed PIM-SM multicast architecture across tactical network with dynamic RP election using BSR; enabled efficient delivery of real-time video and interactive voice and chat applications.
- Migrated network management and monitoring to holistic, streamlined solution with PacStar IQ-Core software; improving network observability and drastically reducing MTTR.
- Maintained eBGP WAN connections to 8 external networks across the US and Pacific ocean.
- Managed enterprise-grade collaboration infrastructure using Cisco Call Managers and Unified Border Elements employing hardware transcoding. Reduced licensing costs by migrating to fully-virtualized REDCOM Sigma software.
- Designed WAN architecture for six multinational tactical exercises, each providing critical IT infrastructure for 500 users at eight branches.
- Standardized network routing architecture, monitoring, management, documentation, and processes where once none existed. Bridged a 6-month gap in support when CCIE engineer departed with no replacement or continuity.
- Provided technical mentorship to 8 junior network engineers; coaching them to improve their abilities in automation, virtualization, and Windows and Linux system administration. Instilled a culture of continuous learning/teaching and technology curiosity.

2019/06 – 2020/06 Bagram, Afghanistan	<b>Tier III NOC Deputy Director</b> <i>US Army</i> <ul style="list-style-type: none"> <li>Supervised operation and maintenance of enterprise IT infrastructure for all US Army users in Afghanistan; supported 15000 users across 16 locations comprising of 200+ Windows Server 2016 instances, 6000+ Cisco network routers and switches, and 50+ vSphere clusters.</li> <li>Responsible for the technical oversight of 20 help desks and tier I NOCs.</li> <li>Developed cyber security policy and new help-desk procedures to enforce continuous monitoring and reporting; resulted in 80% reduction in open vulnerabilities and STIG noncompliance.</li> <li>Managed deployment of quarantine VLAN through 802.1x dynamic VLAN assignment and Active Directory to isolate and remediate non-compliant systems.</li> <li>Managed project to develop and implement QoS solution over SATCOM and commercial microwave line-of-sight transport; ensured connectivity for critical applications during periods of network degradations from combat operations.</li> <li>Engineered and implemented 802.1x solution at 3 installations with zero user impact.</li> <li>Led successful remediation effort of large-scale outage following power disruption at primary data center due to IED explosion.</li> </ul>
2014/05 – 2018/05 El Paso, TX	<b>Operations Manager</b> <i>US Army</i> <ul style="list-style-type: none"> <li>Coordinated and resourced military training events for a 650-person organization.</li> <li>Mentored junior managers across a 150-person organization to improve internal processes, enabling increases in regulatory compliance by 30% and performance by 10%.</li> <li>Led innovative planning that resulted in 15% increase in ammunition resource efficiency.</li> </ul>

## Education

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2014/05 West Point, NY	<b>BS, Computer Science</b> <i>United States Military Academy</i> <ul style="list-style-type: none"> <li>Upsilon Pi Epsilon Honor Society for the Computing and Information Disciplines</li> <li>3.5 GPA</li> </ul>
2018/05 – 2019/06 Augusta, GA	<b>Network Systems Engineering Course</b> <i>US Army Cyber Center of Excellence</i> <ul style="list-style-type: none"> <li>Course prepares engineers with educational knowledge, skills, and hands-on experience in planning, developing, and evaluating DoD strategic and tactical system networks</li> <li>Gained advanced working knowledge of telecommunications, data communications, cryptography and network security, network management and security, network architecture design, and project management.</li> </ul>

## Skills

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### Technologies and Protocols

LAN, WAN, TCP/IP, UDP, OSPF, BGP, EIGRP, PIM, DMPVN, Multicast, NAT, STP, IPsec, QoS, 802.1x, 802.1q, 802.3ad, VLAN, NAT, NHRP, HSRP, VRRP, NetFlow, SNMP, Syslog, iSCSI, NFS, SMB, DNS, DHCP, SIP, SDP, RADIUS, TACACS+

### Platforms

Cisco ISR, CSR, Catalyst, IOS, IOS-XE, PAN-OS, Palo Alto Firewall, Panorama Management, Brocade ICX, Ansible, vSphere 6.x, Cisco Unified Call Manager 10.x, Cisco Meeting Server, Cisco Unified Border Element, Windows Server 2016/2019, iDRAC, CIMC, HAIPE Type 1 Encryptors