# Clay Haynes

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## Profile

Dedicated Engineer with excellent technical, analytical and communication skills demonstrated by over ten years of experience, certifications including JNCIE-SEC #69 and JNCIE-ENT #492, and active membership of the elite Juniper Ambassador group.

## Areas of Expertise

Firewall/VPN, Juniper SRX/EX/MX, Palo Alto Networks, Dynamic Routing (OSPF, BGP), Switching, Log Management, SSLVPN

## Professional Experience

**Senior Network Security Engineer** – September 2016 to Current

**Twitter** – San Francisco, CA

- Increased network capacity to cloud providers from 1Gbps to 100Gbps while maintaining security posture
- Reduced SSLVPN issues by 50% by implementing Passthrough Proxy and Anycast services
- Overhauled internal stateless filters and security enforcement points to enable automation teams to dynamically update hosts as needed
- Wrote visualization tool to take XML output from Juniper routers, output HTML, and display it for non-technical users
- Designed, deployed, and enforced network security design across four sites for 3$^{rd}$ party vendors in Trust & Safety department using SSLVPN solution
- Deployed mitigations to address of security issues in PCI-scoped networks during a PCI Audit

**Senior Network Engineer** – March 2015 to September 2016

**Nexum, Inc** – Chicago, Il

- Designed and deployed multiple datacenter security solutions utilizing high-end SRX clusters (SRX5k series)
- Led multiple network and security design assessments, including configuration analysis and proposed mitigation solutions
- Presented at CHINOG 06 and BOSNOG on Ethernet VPN
- Active instructor for Pulse Secure and Palo Alto Networks with high ratings from students
- Overhauled Lab and Training virtual environments to efficiently utilize datacenter resources
- Wrote automation scripts to automatically deploy VM Environments for training classes utilizing python, chef knife, and bash shell
- Contributor to the Juniper Networks Certified Design Specialist - Security Exam (JNCDS-SEC)

**Senior Systems Engineer** – June 2006 to March 2015
**CentraComm Communications** - Findlay,OH

- Architected mass deployments of Juniper SRX firewalls with managed nodes in 4 continents
- Deployed multiple Global SSLVPN solutions utilizing both MAG and SA Series for 20,000+ concurrent users
- Mentored junior engineers in solving complex customer issues and deployments
- Designed and deployed Splunk solution for long-term log-management
- Developed and maintained CRM solution powered by Salesforce to provide business intelligence, automation, and accountability across the organization
- Performed deep-dive discussions and presentations on topics such as Virtualization Security, Disaster Recovery, and Mobile Security
- Wrote scripts (bash, powershell, python) to help with automating repetitive tasks
- Deployed and maintained MX Series, EX Series, and SRX Series solutions for multiple customer environments
- Technical liaison between customers, vendors, and account managers - led customer deployments from pre-sales to post-installation operations
- Overhauled physical infrastructure to migrate to a 95% virtualized environment

**System Administrator** – March 2004 to June 2006

**Northwest Ohio Orthopedics And Sports Medicine** - Findlay, OH

- Designed, built, and implemented servers, fiber-channel SAN, and external storage for a Document Management System

- Researched, implemented, and managed a core switch replacement
- Installed, configured, and maintained Juniper SSL VPN system
- Designed and built 10 Small Form Factor computers for daily use
- Implemented and maintained Anti-Virus, Anti-Spam, and Content Filtering systems

**SWIFTY** – June 2003 to May 2005
**Bluffton Exempted Village Schools**
- Assisted in system migration from Novell 4.1 to Windows Server 2003
- Developed in-house solutions for patch management, computer image deployment, and application deployment
- Maintained Infrastructure, as well as assisting students and teachers with a variety of technological questions
- Supported Microsoft Office, Internet Explorer, Adobe Premiere, Symantec Ghost, Pegasus Mail, and a variety of educational programs

## Education

**Bachelor of Science** : **Computer Science - Information Assurance**, 2008
**University of Findlay** - Findlay,OH
Major courses include C++, VB, and Assembly; Network Management and Forensics; Unix Environments; and Technical Communication

## Affiliations

Juniper Networks Ambassador
National Youth Leadership Forum of Technology Representative
Buckeye Boys State

## Certifications

Juniper Networks Certified Internet Expert #69 – Security (JNCIE-SEC)

Juniper Networks Certified Internet Expert #492 – Enterprise Routing & Switching (JNCIE-ENT)

Juniper Networks Certified Support Professional – Security (JNCSP-SEC)

Juniper Networks Certified Support Professional – Enterprise Routing & Switching (JNCSP-ENT)

Juniper Networks Certified Design Specialist – Datacenter (JNCDS-DC)

Juniper Networks Certified Design Specialist – Security (JNCDS-SEC)

Juniper Networks Certified Internet Specialist – Service Provider (JNCIS-SP)

Aruba Certified Mobility Professional (ACMP)

F5 Certified Big-IP Administrator

Riverbed Certified Solutions Professional – Storage Delivery (RCSP-SD)

Palo Alto Networks Certified Network Security Engineer (PCNSE)

Palo Alto Networks Certified Network Security Instructor (PCNSI)

Pulse Secure Policy Secure Administrator (PSC-PSA)

Pulse Secure Connect Secure Administrator (PSC-CSA)

Pulse Secure Certified Instructor (PSCI)

## Skills

JNCIE, Firewalls, VPN, Security, Juniper, Network Architecture, IPS, Data Center, Networking, Network Security, SSLVPN, Servers, Zscaler, WAN, UAC, Switches, Routers, BGP, OSPF, Network Design, Splunk, Security assessments, Stateless Filters, Stateful filters

## Publications

Juniper Ambassadors Cookbook for 2014 – Chapters 6 and 9
Day One: Juniper Ambassadors' Cookbook 2017 – Chapter 4