H. MICHAEL SMITH, JR.

NETWORK ENGINEERING · ARCHITECTURE · SECURITY

Peachtree Corners, GA · michael@hmsjr.com · linkedin.com/in/hmsjr · securitysmithrpc.com

PROFESSIONAL PROFILE

Network engineering and architecture professional with approximately 30 years across enterprise networking, security, data-center operations, WAN/BGP, application delivery, CDN, professional services, and automation. Brings deep hands-on experience in routing, switching, firewalls, load balancing, traffic engineering, troubleshooting, and operational visibility, using architecture and automation to make complex infrastructure more reliable and supportable.

NETWORK ARCHITECTURE THROUGH-LINE

Career spans Senior and Lead Network Engineer, Staff Network Operations Engineer, Network Architect, Solutions Architect, and Technical Solutions Consultant roles across enterprise operations, design, migration, traffic engineering, security, application delivery, and automation.

AREAS OF DEPTH

Network architecture & design · Routing/switching, WAN/BGP & traffic engineering · Network security & VPN
Palo Alto/Panorama · Cisco routing/switching & ISE · F5 BIG-IP/BIG-IQ/GTM · Aruba wireless & ClearPass
Data center, CDN & application delivery · DNS, NAC & DDoS mitigation · Python, APIs, automation & observability

PROFESSIONAL EXPERIENCE

Millennium Information Tek / GSCCCA — Jun 2025-Present

Senior Network Engineer | Embedded with GSCCCA

- Enterprise network and security engineering across Palo Alto, Cisco routing/switching, F5, WAN/BGP, VPN, DNS, and infrastructure modernization.
- Conceived and lead Network Authority, an internal network automation and operational intelligence platform connecting infrastructure evidence, workflow data, monitoring, and audience-specific operational views.
- Work across network, systems, development, project, and business stakeholders on architecture, troubleshooting, modernization, and operational improvement.

Landis+Gyr — Oct 2023-Mar 2025

Lead Network Engineer

- Executed and led production network work across Cisco routing/switching, Palo Alto/Panorama, F5 BIG-IP/BIG-IQ/GTM, Terraform, Google Cloud, DNS, and Cisco ISE.
- Resolved business-impacting infrastructure issues while providing hands-on technical leadership to junior and mid-level engineers.

Lockstep Technology Group — Jul 2019-Oct 2023

Senior Network Engineer

- Delivered network and security consulting for K-12, higher education, and state/local government customers, including design, migration, implementation, and managed-service escalation work.
- Designed Palo Alto, network-access-control, and wireless solutions; performed Cisco ASA policy assessment and migration work.

GE Digital — Mar 2017-Jul 2019

Staff Network Operations Engineer

- Supported data-center and remote-LAN operations across multi-vendor networks; used Python with Infoblox NetMRI for automation.
- Applied ThousandEyes, CA Spectrum, and Splunk to troubleshooting, service visibility, and operational analysis.

Hewlett-Packard / HPE — Aug 2013-Mar 2017

Technical Solutions Consultant IV; Automation Platform Architect

- Delivered top-tier HP/HPE networking support through the HPE split and Aruba acquisition, expanding into Aruba wireless, AirWave, IMC, and related technologies.
- Supported a 2,000+ store Home Depot rollout from deployment through full-time assignment at the customer's technology center for cross-program operational issues.
- Designed and built CMLG, a Python/Flask/MySQL platform correlating management systems and live network evidence for program review and post-deployment validation.

PROFESSIONAL EXPERIENCE | NETWORK ARCHITECTURE & ENGINEERING

EdgeCast Networks 2012-2013

Senior Sales Engineer

- Led discovery and hands-on POCs for CDN opportunities and carried won engagements through website/streaming integration, production onboarding, and support handoff.

Level 3 Communications 2011-2012

Senior Solutions Architect, CDN & Media

- Architected CDN and media solutions for large enterprise accounts, integrating content delivery and video with dark fiber, transport, satellite/teleport, and adjacent Level 3 services.

Internap Network Services 2005-2011

Installation Engineering Manager · Network Architect · Development Architect · Solutions Architect

- Network Architect / Development Architect - Contributed to architecture standards and product/service development across Internap's IP/CDN platforms, leading initiatives including TCP/SSL acceleration and a video-focused CDN origin POP in Mumbai.
- Solutions Architect - Owned professional-services opportunities across FCP route optimization, BGP/traffic engineering, security, DDoS mitigation, discovery, design, implementation, and account expansion.
- Installation Engineering Manager - Managed six engineers delivering customer network installations from order through turn-up and NOC handoff.

Clark Atlanta University 2002-2005

Network Services & Security Manager

- Established and managed university network and information-security services, including staff, policy, budgets, contracts, and campus networking/security.

EARLIER EXPERIENCE

1995-2002: Network Services & Security Manager, Allconnect; technical consultant, MXN; contract Tier-3 network engineering, Microsoft; LAN support, IBM / 1996 Olympic Games; technician, NCR.

SELECTED AUTHORED SYSTEMS

Network Authority (2025-present) · Cloud-management API proof of concept (2017) · Change Management Looking Glass / NMS Auditor (2016) · Custom network inventory system (2003) · ATM safe one-time combination distribution system (1999)

HISTORICAL QUALIFICATIONS

CISSP · Cisco CCNP / CCDP · HPE MASE / ASE · Aruba ClearPass / Mobility Professional · Check Point CCSE · Microsoft MCSE / MCT · CompTIA Security+

Historical and expired credentials are included to reflect professional background and the technologies encountered across the career; they are not presented as current certifications.