

NICHOLAS J. RUSSO

Principal Network and Automation Engineer/Architect

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Aberdeen, Maryland USA

@nickrusso42518



EXPERIENCE

Principal Architect

Cisco Systems

2016 - Present Aberdeen, MD USA

https://www.cisco.com

- Developed a Generative AI-based network migration system, followed by automated pre/post checking, creating a new \$15MM sales opportunity
- Migrated a large healthcare system to IPv6 as lead architect; \$10MM revenue
- Designed, deployed, and documented a global MPLS network between ~150 sites, providing seamless military communications worldwide; \$4MM revenue
- Developed a comprehensive network automation solution for said MPLS network, including continuous integration (CI) testing pipelines
- Rapidly prototyped and productized a temporary field hospital solution for municipalities in response to the COVID-19 pandemic
- Led the US Public Sector DevNet and GenAI Enablement efforts involving training, coaching, co-delivery, technical review, and results tracking
- Helped shape and grow new Automation Core Team line of business
- Served as cohort mentor in Cisco's Consulting Development Program
- Awarded the exclusive George Hansen Leadership Award in 2018

Network Engineer

Netorian LLC (US Army)

2013 - 2016 Aberdeen, MD USA

https://www.netorian.com

- Implemented a scalable and effective Quality of Service (QoS) policy for the tactical US Army, unifying three disparate and incompatible designs into one
- Designed and modeled a converged transport network to reduce infrastructure footprint; personnel, equipment, and bandwidth cost savings
- Designed and implemented airborne comm-on-the-move SATCOM network
- Supported US Army's response to the Ebola virus outbreak (2014) via rapid deployment of new networks in support of humanitarian relief operations

Systems Engineer

Harris RF Communications

2012 - 2013 Rochester, NY USA

https://www.l3harris.com

- Provided on-site engineering expertise for three Network Integration Evaluations (NIE) as part of the US Army's experimental acquisition process
- Developed advanced technical documentation on AN/PRC-117G networking features such as SNMP, NAT, and multi-gateway dynamic routing

Battalion Communications Officer

United States Marine Corps (USMC)

2008 - 2012 Camp Lejeune, NC USA

https://www.marines.mil

- Commanded a Communications Platoon of 65 Marines; accountable for more than \$21MM in assets: computers, radios, routers, vehicles, tools, PBXs, etc.
- Served on the Battalion's primary staff as the lead communications advisor
- Supported operations in Haiti (2010) and Afghanistan (2011)
- Awarded the Navy Commendation Medal for outstanding service
- Awarded the Lieutenant Colonel Kevin M. Shea Memorial Unit Award for commanding the USMC's "Best Communications Unit" in 2011

EDUCATION

Bachelor of Science: Computer Science

Rochester Institute of Technology (RIT)

2004 - 2008 Rochester, NY USA

- Graduated with Honors (<https://www.rit.edu>)
- Minor in International Relations

GPA

3.51 / 4.0

TOP CERTIFICATIONS



CCDE #20160041

Experienced business-driven designer



CCIEEx2 #42518 (EI and SP)

Large-scale networking technical expert



Cisco DevNet Professional

Specialties: Enterprise, Service Provider, Data Center, Security, DevOps, and Collaboration

DIVERSE SKILLS

IP and MPLS Networking/Troubleshooting

Multivendor Network Automation and APIs

Python-based Software Development

DevOps/CICD and Cloud Architecture

Programming with Generative AI

Cybersecurity and Unified Comms Design

Linux System Administration and Scripting

Technical Comms and Content Creation

Leading Technical Teams and Projects

Business Strategy, Operations, and Finance

Mandarin Chinese - 简体中文/普通话

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US Government TOP SECRET Clearance

Activated as needed since 2011



Professional Author and Teacher

[O'Reilly](#), [Pluralsight](#), and [Leanpub](#)



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