

DHEERAJ RAMASAHAYAM

Network Engineer | Data Center Infrastructure | Fiber Migrations & Rack Builds | Network Operations

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Professional Summary

Network Engineer with over 3 years of experience supporting enterprise, campus, and hyperscale data center environments through routing and switching, fiber infrastructure, rack builds, device decommissioning, and migration activities. Hands-on experience with Cisco 7800 routers, Ciena transponders, Fiber Interconnect Modules, LC/MDC/MPO fiber paths, OTDR/VFL validation, fusion-splice coordination, and structured cabling while troubleshooting physical and logical issues in high-availability environments. Bachelor's in Electrical and Electronics Engineering with a strong record of building SOPs, runbooks, migration documentation, and as-built records for cross-functional infrastructure delivery.

Technical Skills

- Networking & Protocols:** TCP/IP, LAN/WAN, routing and switching, VLAN, VPN (WireGuard, Cisco AnyConnect), OSPF, EIGRP, BGP, MPLS, NAT, ACLs, DHCP, DNS, QoS, Port Forwarding
- Network Devices & Infrastructure:** Cisco Routers & Switches (2900/3900/7800/7900 Series), Layer 2/3 Switching, Cisco ASA, Fortinet, Cisco Meraki dashboard, Ciena transponders, Fiber Interconnect Modules, Wireless Access Points & Controllers (Cisco, Ubiquiti), VoIP systems/controllers
- Network Monitoring & Analysis:** SolarWinds NPM, Wireshark, PRTG, SNMP, NetFlow, Nmap, Nessus, incident troubleshooting, performance monitoring, root cause analysis
- Operating Systems:** Windows 7/10/11, Windows Server 2016/2019/2022, Linux (Ubuntu, CentOS), macOS
- Cloud & Virtualization:** Azure VPN Gateway, Azure Firewall, AWS EC2, AWS VPC, AWS Security Groups, Proxmox, VMware ESXi, VirtualBox, Hybrid Cloud Connectivity
- Physical Infrastructure & Cabling:** Fiber optic installation, fusion-splice support, OTDR/OTLS and VFL testing, Fluke testing, Cat-5/6, LC/MDC/MPO patch panels, rack builds, cable management, structured cabling, high-density patching, cross-connects, PDU/PSU validation
- Tools & Support Platforms:** MS Excel, MS Word, ServiceNow, Active Directory, GNS3, Cisco Packet Tracer, AnyDesk, TeamViewer, iOS/Android device support
- Scripting & Configuration:** Bash, PowerShell, YAML configuration files
- Methodologies:** Agile, ITIL, change management, cross-functional coordination
- Operations & Delivery:** Device decommissioning, rack migrations, network cutovers, infrastructure turn-up, incident response, high-availability support
- Documentation & Best Practices:** Network topology diagrams, technical runbooks, SOPs, incident response playbooks, change/migration documentation, as-built records

Professional Experience

Data Center Network Technician (Contract)

Ericsson

October 2025 - Present

- Build, install, and decommission network infrastructure in hyperscale data center environments, including Cisco 7800/7900 routers, Ciena transponders, Fiber Interconnect Modules, optics, patch panels, and structured fiber paths.
- Execute rack builds, fiber runs, structured cabling, and network device deployments to support large-scale data center expansion and migration programs.
- Perform J3 migration work, including conversion of EB device connectivity from LC-to-LC patch panels to LC-to-MDC patch panels during active infrastructure upgrades.
- Troubleshoot physical-layer issues, validate fiber connectivity, and perform installation, testing, and cable management across production infrastructure.
- Support equipment turn-up, rack migrations, and network infrastructure upgrades while following SOPs and change procedures in high-availability environments.
- Reduced average network incident resolution time by 30% through enhanced monitoring and updated Standard Operating Procedures (SOPs).

AWS Data Center Deployment - Hermiston, OR

- Coordinated day-to-day execution for large AWS deployment workstreams, aligning technician assignments, fiber/copper runs, breakout cable installation, spool handling, and rack-level task completion.
- Partnered with AWS project and logistics teams to confirm material readiness, sequencing, workflow priorities, and deployment schedules before production windows.
- Performed quality checks across routed fiber, copper patching, labeling, cable dressing, overhead tray paths, patch panels, and network equipment connections.
- Supported GB200 and GB300 infrastructure troubleshooting by verifying cabling paths, optics seating, link status, hardware readiness, and escalation details for engineering review.

Meta Data Center Migration - Denver, CO

- Led migration support for live production rack moves involving optical refresh work, line-card preparation, fiber path mapping, new patching, connectivity validation, and removal of legacy fiber paths.
- Completed rack readiness audits, fiber-capacity checks, migration planning, technician allocation, and cutover coordination to keep work aligned with approved change windows.
- Supported forklift-style rack replacement activities by helping decommission legacy racks and integrate redesigned racks into the updated network architecture.
- Installed and dressed high-density fiber between racks, Ciena transponders, patch panels, and switching infrastructure while maintaining clean labeling and as-built accuracy.
- Validated PSU health, rack power readiness, switch bring-up status, console access, and latest device configurations before migration sign-off.
- Used Fluke testers, VFLs, and OTDR readings to confirm continuity, signal quality, cable integrity, and end-to-end fiber connectivity across production links.

- Worked with Meta engineers to isolate down links, restore connectivity, document findings, and complete migration handoff with minimal service impact.

Google Data Center Heavy Deployment & Decommissioning - Ohio

- Supported heavy deployment and device decommissioning work inside Google data center cage environments, including Cisco 7800/7900 router builds, hardware removal, fiber cleanup, and rack-level readiness activities.
- Decommissioned legacy fiber paths from cages and rack locations by tracing circuits, removing unused jumpers, validating patch-panel records, and coordinating safe cleanup of production cabling.
- Built, racked, cabled, and validated Cisco 7800 and 7900 network devices, confirming port mapping, optics placement, cable dressing, labeling accuracy, and stable connectivity before handoff.
- Performed VFL and OTDR-based validation to identify fiber integrity issues, confirm end-to-end light paths, support optical performance checks, and verify cleaned-up or newly deployed fiber runs.
- Performed break-fix support for live fiber and device infrastructure, including patch corrections, optics checks, link testing, hardware decommissioning support, and escalation of physical-layer faults.
- Used Linux command-line basics for system checks, network diagnostics, log review, and support activities tied to Cisco device turn-up, decommissioning, and data center infrastructure validation.

Jr Network Engineer

Metapicks LLC, Fort Worth, TX

July 2024 - October 2025

- Managed enterprise LAN/WAN infrastructure supporting 500+ users across routing, switching, firewall administration, VPN access, and VLAN segmentation.
- Deployed and supported Cisco routers, Layer 2/3 switches, and ASA firewalls to improve connectivity and reduce latency.
- Configured Cisco AnyConnect VPN access for remote users and implemented VLAN segmentation for secure traffic isolation and efficient routing.
- Utilized SolarWinds NPM and Wireshark for real-time monitoring and troubleshooting, identifying bottlenecks and reducing downtime by 20%.
- Maintained Active Directory-based access controls and administered firewall and NAT policies to secure enterprise traffic flows.
- Assisted with Azure VPN Gateway setup and hybrid connectivity between cloud and on-premises environments.
- Created network topology diagrams, SOPs, and technical runbooks to support incident response and operational consistency.
- Extended troubleshooting beyond logical configs by validating structured cabling, patch-panel handoffs, uplinks, SFP optics, and fiber cross-connects tied to switch and firewall connectivity.
- Coordinated VFL and OTDR checks with cabling/vendor teams to isolate high-loss fiber paths, dirty connectors, incorrect patching, and intermittent physical-layer faults.
- Supported fiber repair and restoration workflows by documenting splice locations, post-splice loss results, labeling updates, and final connectivity verification for affected network links.

Network Support Assistant

New England College, Henniker, NH

June 2023 - June 2024

- Supported campus-wide Cisco switching, routing, wireless, and network access infrastructure, maintaining over 99.9% uptime across academic and administrative buildings.
- Worked with IT and security teams to configure VPN access, firewall rules, and wireless APs.
- Provided event-day A/V and network support using Cisco Room Kits, switches, and conference equipment.
- Monitored network performance using PRTG and resolved issues proactively before user impact.
- Applied patching and security upgrades on Layer 2/3 devices in accordance with college IT standards.
- Produced network diagrams, access policies, and onboarding documentation to support day-to-day operations.
- Assisted with MDF/IDF cabling support by tracing fiber and copper uplinks, validating patch-panel mappings, and confirming switch/AP connectivity during moves and refresh work.
- Used VFL checks and reviewed OTDR-style test results from cabling teams to help identify suspected fiber breaks, high-loss connectors, and mismatched campus links.
- Coordinated vendor-supported fiber repair activities, including fusion-splice validation, retesting, labeling, and updating as-built documentation after service restoration.

Projects

Enterprise Network Monitoring & Infrastructure Lab

- Designed a Proxmox-based enterprise lab to simulate routing, segmentation, virtualization, and operational troubleshooting workflows.
- Implemented SIEM-based monitoring and alerting to improve visibility into network and security events.
- Integrated firewall logging and network telemetry to support analysis and root cause investigation.

Virtualized Home Infrastructure with Proxmox

- Built and maintained a multi-VM home environment for VPN, media, and Linux services, reducing hosting costs by 30%.

Monitoring and SIEM Deployment in Azure

- Deployed Azure-based monitoring and SIEM tooling to strengthen event visibility and improve incident response time by 40%.

Virtual Active Directory Environment

- Configured a virtual AD environment for secure identity management, policy testing, and user administration, improving project efficiency by 25%.

Research & Publications

- Temporal Attention-Guided Sequence Learning for Zero-Shot Generalization in Datacenter Network Failures. Authorea, March 16, 2026. DOI: 10.22541/au.177368699.90508683/v1
- Drift-Adaptive Intrusion Detection for Enterprise Networks. Authorea, March 20, 2026. DOI: 10.22541/au.177402875.52526953/v1
- ClosRCA-Bench: An Open Topology-Grounded Benchmark and Counterfactual Recovery Framework for Self-Healing Datacenter Networks. Authorea, March 20, 2026. DOI: 10.22541/au.177402886.66308404/v1

- Autonomous Self-Healing Datacenter Networks: A Unified AI System for Prediction, Detection, Root Cause Analysis, and Recovery. Authorea, March 20, 2026. DOI: 10.22541/au.177402935.53246540/v1
- Explainable AI for Root Cause Analysis in Large-Scale Datacenter Networks. Authorea. March 30, 2026. DOI: 10.22541/au.177490729.94263354/v1

Education

Master of Science in Computer Information Systems - New England College - Graduated: 2024

Bachelor of Engineering in Electrical and Electronics Engineering - National Institute of Technology, Andhra Pradesh, India - Graduated: 2022

Certifications

- OSHA 10-Hour Safety Certification
- CPR Certification
- Bloodborne Pathogen Certification
- CCNA
- Certified Ethical Hacker (CEH) v11 by EC-Council
- IBM Cybersecurity Analyst Professional Certificate
- CompTIA A+
- CompTIA IT Fundamentals+
- Certified Scrum Master