

# Hemang R.

Email: | Phone:

## SUMMARY:

- **1.5 years** of experience in **Networking and Security**, including hands-on experience in providing network support, installation, and analysis for a broad range of **LAN/WAN/MAN** communication systems.
- Detailed understanding of different Layer 2 protocols like **VLANs, VTP, STP, RPVST, Port Security, and Ether Channels (LACP/PAGP)**.
- Experience in configuring and troubleshooting various Layer 3 routing protocols like **RIP, OSPF, EIGRP, and BGP**.
- Worked on Cisco **1800, 2600, 3600, 7200, and 7600** series routers.
- Experienced in Data-Center Nexus **2148T, 2224T, 5548P, 5596T, 7009, 7018, and 6000** switches.
- Implemented **VDC, VPC, VRF and OTV** on the Nexus **5505 and 7009** switches and **VSS** on Cisco Catalyst **6509 and 6513** switches.
- Hands on experience in configuring and supporting site-to-site and remote access Cisco, IPSec, **VPN** solutions using **ASA/PIX** firewalls.
- Responsible for **Check Point** and Cisco ASA firewall administration across global networks.
- Experience in deploying Cisco **3900, 6900, 7800, 7900, and 8800** series VoIP phones.
- Worked on **F5 LTM, GTM** series like **6400, 6800, 8800** for the corporate applications and their availability.
- Involved in troubleshooting of **DNS, DHCP** and other IP conflict problems.
- **DMZ** zoning & configuring **VLANs/NAT** with the firewalls as per the design.
- Working experience with **Wireless LAN Controller (WLC)** and Light Weight Access Point Protocol (LWAPP).
- Practical knowledge of **TACACS, AAA, IPSec, 802.x, and public/private key encryption**.

## EDUCATION:

**New York Institute of Technology, New York, NY**  
Master of Science in Computer Science

**December 2017**  
**GPA: 3.4**

**Gujarat Technological University, Gujarat, India**  
Bachelor of Engineering in Electronics & Communication

**June 2013**  
**GPA: 3.4**

## EXPERIENCE:

**Integra Technologies LLC, Wilmington, DE**  
**Position:** Network Engineer

**February 2018 – March 2020**

- Configure and install various network devices and services.
- Perform network maintenance and system upgrades including service packs, patches, hot fixes and security configurations.
- Monitor performance and ensure system availability and reliability.
- Monitor system resource utilization, trending, and capacity planning.
- Provide Level- 2/3 support and troubleshooting to resolve issues.
- Work within established configuration and change management policies to ensure awareness, approval and success of changes made to the network infrastructure.
- Select and implement security tools, policies, and procedures in conjunction with the company's security team.

- Liaise with vendors and other IT personnel for problem resolution.
- An understanding of system monitoring and performance analysis.
- Involve in configure site-to-site and remote access VPN solutions.
- Configure network using routing protocols such as RIP, OSPF, and BGP.
- Installing, configuring, and maintaining Cisco routers (800, 1700, 1800, 2600, 2800, 2900, 3600, 3800, 4800 series) and Cisco switches (2900, 3500, 3700, 6500, 7600 series).
- Successfully migrated the Cisco legacy environment which consist of 4500, 6500 to Nexus 2k/5k/7k.
- Troubleshoots in Cisco Aironet 600 and 2700 series.
- Work extensively on Cisco firewalls, Cisco PIX (506E/515E/525) and ASA 5500 (5510/5540) series, experience with convert PIX rules over to the Cisco ASA solution.
- Design and configure F5 BIG-IP LTM reverse proxy and load balancing solutions for client networks.

### **Web Drills, West Bengal, India**

**July 2013 – December 2015**

**Position:** Jr. Network Engineer/Trainee

- Responsible for monitoring the network performance based on company's Service Level Agreement (SLA).
- Documented the company's design, implementation and troubleshooting procedures.
- Responsible for cabling and labeling based on day to day requirement and Racking/Stacking of various network equipment and made sure that there are no connectivity issues using ping and tracer.
- Provided Helpdesk support that involved identifying and escalating the tickets to specific groups.
- Responsible for Level 2 support/integration of existing network technologies/services.
- Designed and implemented Cisco 2600, 3600, 6500, 7200, 7500 series routers in lab environment to reproduce various issues and test fixes for them.
- Performed IOS upgrades on various Catalyst series switches and maintained latest IOS versions according to company's policy.
- Configured VSS on Cisco Catalyst 6509 switches to have redundancy. Worked on T1/E1/T3 technologies and different LAN/WAN technologies.
- Supported various LAN environments consisting of Cisco 6500 switches with Supervisor 720.
- Configured Ether Channels, Trunks, VLANs, HSRP in a LAN environment.
- Configured STP for loop prevention and VTP for Inter-VLAN routing.

### **SKILLS:**

**LAN Technologies:** Ethernet, Fast Ethernet, Gigabit Ethernet, VLAN, Inter-VLAN, VTP, STP, RSTP, NAT/PAT, FDDI

**WAN Technologies:** Frame Relay, PPP, HDLC, ATM, MPLS

**Routers/Routing Protocols:** Cisco Aironet, WAP - RIP, OSPF, EIGRP, BGP, HSRP, GLBP

**Protocols:** IPv4/v6, TCP/UDP, HTTP/HTTPS, SSL, TLS, SSH, DNS, QoS, VoIP, DHCP, ARP, ICMP

**Switches/Switching Protocols:** Cisco Nexus, Catalyst, Junipers - PVST+, RPVST+

**Network Security/Firewalls:** UTM, Cisco FirePOWER, Cisco ASA 5540, Juniper SRX, PaloAlto, Proxy, IPSec VPN, Remote VPN, F5 Load Balancer, ACL, Check Point

**Load Balancer:** F5 Networks (Big-IP) LTM 6400 and 8900, GTM, Cisco CSM, APM

**Tools:** Wireshark, SolarWinds, OPNET/Riverbed, VMware, UML, Xilinx, Eagle, Microwind, Tanner, MATLAB, Microsoft Office, Exchange Server/Windows Server

**Operating Systems:** Microsoft Windows, Android, Linux Ubuntu, Mac OS

## **ACADEMIC PROJECTS:**

### **Denial of Service Jamming Attack**

**May 2017**

- Constructed wireless network topology in OPNET which connects several computers to a single network
- Analyzed the result of the attack which revealed the decrement in throughput of nodes and increase in delay by implementing Jamming Attack
- Utilized channel switching technique to resolve the attack

### **Exemplar-Based Image Inpainting**

**May 2016**

- Surveyed most common inpainting methods & origins (e.g. Criminisi method, PDE based, Texture synthesis based, Semi-automatic & fast)
- Researched & developed new algorithm (Improved exemplar-based algorithm with wireframe mesh & color map concept) and implemented on MATLAB

### **Image Denoising**

**May 2016**

- Surveyed different algorithms of removing noises from an image (e.g. Linear filtering, Non-linear threshold filtering, Non-orthogonal wavelet transforms)
- Implemented Wavelet Coefficient Model on MATLAB

### **GSM Based Heartbeat & Temperature Monitoring System**

**May 2013**

- Surveyed various microcontrollers (e.g. Intel 8048/8051 family, Atmel ATtiny/ATmega series)
- Designed PCB layout using Eagle tool and implemented the circuitry with ATmega8535 controller & GSM modem to wirelessly monitor heartbeat and temperature through SMS notifications