**Natwar Ram Prasad Darak**

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**OBJECTIVE**

To obtain a Network Engineer position that will utilize my skill sets and experience in engineering.

**PROFESSIONAL SUMMARY**

Over 7 years of experience as a Networking professional in areas concerned with network design, implementation, operations and troubleshooting enterprise data networks.

* Cisco Certified Network Associate (**CCNA**) and Cisco Certified Network Professional (**CCNP**) with experience in configuring and deploying network devices like Cisco routers and Switches and providing network support for troubleshooting connectivity issues at small and large enterprise network environments.
* Experience in Designing, Implementation and Operations of enterprise data networks as a **Network Engineer**.
* Extensive knowledge of **Network System Engineering** methods.
* Experience with configuring **checkpoint firewalls** and installing in enterprise network. Also **F5 Load balancer LTMs and GTMs** to divide traffic from the web servers.
* Extensive hands on experience with routers like **Cisco 3600** series and **3700** series, switches like **Cisco 6500** series and **Cisco 7600** series.
* Hands-on experience with Open Systems Interconnection (**OSI**), **T-1** system design, **TCP/IP**, **ATM** and various Network Management systems.
* Extensive knowledge and troubleshooting in data communication protocols and standards including **TCP/IP**, **UDP**, **IEEE 802.3**, **Token Ring**, **Cable Modem**, and **Multilayer Switching**.
* Working with **Nexus 9K**, **7K**, **5K**,and **2K** devices.
* Involved in troubleshooting of **DNS**, **DHCP**, and other IP conflict problems.
* Skilled in designing, planning, implementing, and troubleshooting **LAN/WAN** solutions.
* Experience in Layer 2 Routing protocol configurations: **ATM/Frame Relay**, IP services such as **QoS** and **VPN** technologies: **IPSec** and **SSL**.
* Hands on experience on up-gradation of Cisco IOS and firmware of different Cisco devices and modules.
* Extensive understanding of **Layer 2** and **Layer 3** technologies.

**Layer 2 Switching**:

* Proficient in configuring **VLANs** using Cisco routers and multilayer switches and supporting **STP**, **RSTP**, **PVST**, **RPVST** along with troubleshooting on **inter-VLAN routing** and **VLAN trunking using 802.1Q**.
* Experience in working with **Ether channel** technology **LACP**, and **PAgP**.
* Designing and implementing Spanning-Tree feature: **Port Fast**, **Backbone Fast**, **Uplink Fast**, **Loop Guards**, **BPDU Guards**, and **Root Guards**.

**Layer 3 Routing**:

* Experience in IP addressing and subnetting with **VLSM**, **Route Summarization**, **Route Redistribution** and **NAT/PAT**.
* Extensive experience with design, implementation and working exposure of IP Routing Protocols **RIPv1 & v2**, **EIGRP**, **OSPF** and **BGP**.
* Experience with implementing **MPLS over OSPF**, **BGP** and **VPN** for secured connection.
* Hands-on experience with configuring **BGPv4**, **BGP Path Attributes**, and **Route Reflectors**.

**Security**:

* Experience in configuring security policies including **NAT/PAT**, **VPN** and **Access Control Lists** (ACL).
* Extensive working and configuring experience of **firewalls** like **Cisco PIX** (**515/535/525**), **Cisco ASA ApplianceASA 5510**, **5520**, and **5540**.
* Experience of TCP/IP networking standards with protocols like **Netflow** and **SNMP**.

**VoIP**:

* Extensive working experience with **Cisco Call Manager Express**, **CUCM** and Cisco Unity Express.
* Extensive hands-on experience with **VoIP phones**, Dial Peers, Dial Plan and other telephony services related to CME.
* Extensive working and troubleshooting exposure to **CUE Voice Mail System**, **CUE Scripts** and voice mail boxes.

**WAN**:

* Successful deployment of **PPP**, **HDLC**, **Frame Relay**, and **ISDN** on Cisco Routers over **T1** and **T3** circuits, **F5 Load Balancer LTM’s & GTM’s** and **Cisco ACE load balancers**.

**Network Monitoring**:

* Network analysis and capacity planning experience using **Wireshark**.
* Experience in monitoring networks using **Netflow** and **Solarwinds**.

**Wireless**:

* Proficiency with **Cisco Wireless Controllers**, and **access points**.
* Extensive understanding in working with WLAN controllers using standard **802.11 a/b/g/n** protocols.
* Involved with troubleshooting wireless access points.
* Highly motivated with the ability to work independently or as integral part of a team and committed to the highest levels of professionalism.

**CERTIFICATIONS**

* Cisco Certified Network Professional (**CCNP**)
* Cisco Certified Network Associate (**CCNA**)

**CORE COMPETENCIES**

* **Network Hardware:**Cisco 1700, 2500, 2600, 3600, 3700 Series Routers, Cisco 1900, 2900, 3550, 3650 and 6500 Catalyst Series Switch, CISCO Nexus 7600, TACACS+, ACS, Cisco 5500 Series LAN Controller
* **Network Configuration:**Advanced switch/router configuration (Cisco IOS access lists, Route redistribution/propagation).
* **Firewalls:**Cisco PIX, Cisco ASA, Checkpoint
* **Load Balancer:**Big IP F5 Load Balancer, Cisco ACE
* **Routing Protocols:**EIGRP, OSPF, RIP, BGP
* **WAN Protocols:**HDLC, PPP
* **Packet Switched WAN:**ATM, FRAME RELAY
* **Security Technologies:**VPN, ACL
* **Physical Interfaces:**Fast Ethernet, Gigabit Ethernet, Serial
* **Layer 2 Technologies:**VLAN, VTP, ISL, 802.1q, DTP, STP, RSTP, PVST, RPVST
* **VoIP/Wireless:**Cisco Wireless LAN Controller (WLC), Light Weight Access Point (LAP) and Cisco IP phones, Cisco Aironet 1700, 2700 and 3700, Cisco Aironet 600, 1600, 2600 and 3500, Cisco Wireless Controllers 3k, 5k, and 2k
* **Network Traffic Tools:**Wireshark, Solarwinds
* **Operating Systems:**Windows 7/8/XP, LINUX (Ubuntu)
* **Programming Languages:**C, C++,MATLAB

**PROFESSIONAL EXPERIENCE**

**Westernacher and Partner Consulting Inc, Minneapolis, MN December 2013 – present**

**Network Engineer**

* Validate existing infrastructure and recommend new network designs.
* Configuring IP **RIP**, **PPP**, **BGP** and **OSPF** routing.
* Configuration and troubleshooting of routing protocols: **OSPF**, **BGP**, **EIGRP**, **RIP**. Configuring IP access filter policies.
* Configuring network devices including routers, switches, and servers to accommodate company growth and demand while maintaining a high level of security and availability.
* Hands-on experience with **IPv4** and **IPv6**.
* Apply knowledge of the TCP/IP Protocol suite, and Cisco IOS to solve complex networking issues including IP Routing protocols, **ACLs**, **VLANs**, and **VPNs**.
* Racking, Stacking, configuring **Nexus 2K, 5K**, **7K and 9K**.
* Hands-on experience in complete development of LAN and WAN comprising of Cisco Switches (IP address planning, designing, installation, configuration, testing, maintenance, and troubleshooting issues).
* Performing network administrative tasks such as creation and management of VLANs, **portsecurity**, **trunking**, **RPVST**, **Inter-VLAN** routing and LAN **Security**.
* Experience with **CiscoCatalystSwitches** that include **3750**, **4500**, and **6500** in multi-VLAN environment for implementation of inter-VLAN routing, **802.1q** trunking and **Ether Channel**.
* Identify, design and implement flexible, responsive, and secure technology services.
* Troubleshoot traffic passing using **Wireshark**.
* Management of network using **Netflow** and **Solarwinds**.
* Configure and resolve various OSPF issues in an OSPF multi area environment.
* Management of Layer 3 routed LAN/WAN infrastructure as a part of Network team. The LAN consisted of Cisco campus model of **Cisco 3550** at access layer, **Cisco 6513** at distribution/core layer.
* Hands-on experience with **WAN** (**ATM**, **FrameRelay**, **PPP**), Routers, Switches, TCP/IP, Routing Protocols (**BGP**, **OSPF**, **RIP**), and IP addressing.
* Hands-on experience in handling and supporting complex **BGP routed network** infrastructure (perimeter) that include **Route-maps**, community string, **AS-Path**, local preference, InterVRF communication across **multiple ISP’s** and **OSPF** (IGP) with multiple area types.
* Installing and managing network devices including **Hubs** and **Switches**.
* Actively involved in switching technology Administration including creating and managing **VLANS**, **Portsecurity– 802.1x**, **Cisco Nexus Switches 2232**, **5596**, **7009**.
* Layer 2 switching technology architecture, implementation and operations including L2 and L3 switching and related functionality. This includes the use of **VLANs**, **STP**, **VTP** and their functions as they relate to networking infrastructure requirements including internal and external treatment, configuration and security.
* Design, implement and operational support of routing/switching protocols in complex environments including **BGP**, **OSPF**, **EIGRP**, **STP**, **802.1q**, etc.
* Working with **MPLS Protocol** to speed up network traffic flow.
* Working with **Ciscounifiedcommunicationmanager** (**CUSCM**), basic configuration and troubleshoot.
* Configuring and basic troubleshooting of **IPphones** (**VoIP**), configuring **gateways** and **gatekeepers**.
* Working with **Cisco Call Manager Express**, **CUCM** and **Cisco Unity Express**. Also, with **CUE Voicemail** system and configuring **VoIP phones** in network.
* Configuring asterisk **voice server** using command line interface including **IP phones** (**VoIP**).
* Configuring and implementing Remote Access Solution: **VPN**, **ISDNdialup**, **FractionalT1**, implementing **CiscoIOSFirewallIDS** using **2600seriesrouter**.
* Complete basic configurations on the **F5Big-IPLTMs** and **GTMloadbalancer** on existing network to split traffic on web-servers.
* Security Protocols: **IKE**, **IPSec**, **MD5**, **SHA**, **RSA**, **DES**, **3DES**, **ESP**, **SSL**, **SSH**, **Radius**, **Tacacs+**.
* Implementing **Checkpointfirewall** and **CiscoASA** between two sites.
* Responsible for **ServerLoadBalancing** (**SLB**) using **CiscoACE-loadbalancer**.
* Hands-on experience with **CiscoWLANcontrollers** and access points and also authentication of clients.
* Hands-on experience working with **IEEE802.11 a/b/g/n** wireless protocols.
* Ability to analyze, configure and troubleshoot networks.

**Environment : Cisco Nexus 7k**, **5k** &**2k**; **Cisco routers 1700**, **2600**, **2800**, **3600**, **3800**; **Cisco catalyst series switches 2950**, **3700**, **4500**, **6500**; **OSPF**, **BGP**, **EIGRP**, **RIP**, **STP**, **VTP**, **F5 Load Balancer**, **IP phones**, **CUSCM**, **IEEE 802.11 a/b/g/n**.

**Florens Container Services, San Francisco, CA January 2013 – November 2013**

**Network Engineer/Consultant**

* Design and implementation of **LAN**, **WAN**, and Internet system for the Company's new project.
* Designing, configuring and successful implementation of **Port Security** for Source based MAC filtering, **HSRP**, **VRRP**, **GLBP**, and **EtherChannel** for network redundancy and load-balancing.
* Troubleshooting on all Cisco IOS and Catalyst switches on the network which included but was not limited to **1900**, **2900**, **3900**, **7200** and **7500** series routers and catalyst **6513** and **6509** switches.
* Designing, configuring and implementing **BGP**, **EIGRP**, **OSPF** and **RIPv2** in multi-protocol environment.
* Resolving issues related to data communication systems including hardware, software and applications; including **Switches**, **Routers**, **IP**, **FrameRelay**, **VPN**.
* Performing network security assessment and implementing security improvements such as network filtering, **SSH**, **Tacacs**, **SNMPaccess-lists**, **VTYaccess-lists**, **EIGRPMD5** authentication, turning off unnecessary services, etc.
* Configuring **IP Access Control Lists**, and deploying **GRE Tunnel**.
* Configuring **Cisco VPN 3000** Concentrator to allow VPN clients.
* Implementing **Cisco Secure Access Control Server** (ACS 3.0) for **Tacacs+/Radius** and configuring Pix to Pix, and Router to Router VPN.
* Configuring **F5 Big-IP LTM and GTM**. Responsible for general troubleshooting of the F5 load balancers.
* Resolve all IP network issues to reduce the downtime of a Network Infrastructure.
* Responsible for **Datacenter** redesign based on **CiscoNexus7k**, **5k**&**2k** platform
* Troubleshoot **DNS**, **DHCP** and other IP conflict problems.
* Configuring **SNMP**, **NAT**, and **AccessLists** on multiple devices.
* Creating VLANs for separating different corporate internal database, efficient network management and **VTP** for **inter-VLANrouting**.
* Responsible for ensuring problem identification, isolation and resolution within the service legal objectives for routers, switches, wireless and associated network equipment.
* Monitoring network to ensure network availability to all system users and performing necessary maintenance to support network availability.
* Hands-on experience in analyzing results on **Wireshark** during production outage issues; and **Netflow** to monitor the network.
* Successful design of **QoS** for WAN links (**MPLS/VPLS**).
* Implementing **Checkpoint** firewall and **Cisco ASA** between two sites.
* Extensive experience of design, implementation and use of **F5 load balancers**, **BIG-IP**, **3-DNS**, optimize and control network traffic. Also for **cisco ACE load balancers**.
* Hands-on experience on Wireless Routers and **WLANControllers** using Wireless Standards **802.11a/b/g/n**.
* Experience with **Cisco Aironet 1700**, **2700** and **3700** wireless controller series devices 802.11ac G2 series.
* Ensure thorough network documentation, including backup configuration and network diagrams using **MSVisio**.
* Coordinate any network related maintenance or infrastructure changes.

**Environment : Cisco Nexus 7k**, **5k** &**2k**; **Cisco routers 1900**, **2900**, **3900**, **7200** and **7500**; **Cisco6500catalystswitches**; **IEEE 802.11a/b/g/n**; **F5 load balancer**, **Cisco ACE load balancer**

**CIPLA Pharmaceuticals, IndiaJanuary 2011 – December 2012**

**Network Engineer**

* Configuring routing protocols **BGP**, **OSPF**, **EIGRP**, **RIP**.
* Handling LAN/WAN customer networks along with **IOSupgrades**, backup testing, and **DisasterRecovery**.
* Implementation of TCP/IP and related services **DHCP/DNS**.
* Configuring VPN links between different customer sites and troubleshoot the problems related to **VPN**, TCP/IP.
* Managing user accounts using **ActiveDirectory**.
* Configuring clients to connect to the **windowsserver**.
* Performing routing and switching configuration changes as per client requests.
* Deployment of **ISC** based security technologies like **NAT** and **Firewall**.
* ISC Based Service Provisioning – **NAT**, **Firewall**, **IPSecVPN**, **NetworkManagement**.
* Experience of troubleshooting and maintaining networks, as well as implementing layer 2 technologies such as **VLAN**, **VTP**, **STP**, **RSTP**, **Etherchannel**.
* Hands-on experience with configuration of small to medium size networks and extensive use of the Cisco IOS and **CLI**.
* Configuring the LAN port **STP** enhancement like **PortFast**, **Loopguard**, **BPDUFilter**, **BPDUGuard**, **SplitHorizon** and **RoutePoisoning** to avoid looping problems in LAN network.
* Implementing traffic filters on Cisco routers using **Standard** and **Extendedaccess-lists**.
* Implementation of **SNMP** on Cisco routers to allow for network management.
* Configuring **F5LoadBalancer** to provide Load Balancing.
* Configuration and verification of **portsecurity** features, **802.11x** port based authentication.
* Configuration and maintenance of Cisco routers, extensive experience with Cisco IOS and CLI, creating documentation to record test results as well as identify and escalate issues to proper teams, resolving identified problems with the assistance of the design/engineering team.

**Environment: Ciscorouters1800**, **2800**, **7200**; **Ciscocatalystswitches2950**, **3750**, **4500**, **6500**; **OSPF**, **BGP**, **EIGRP**,**STP**, **RSTP**, **VPN**; **F5 Load balancer**

**Aurobindo Pharmaceuticals, India February**  **2008 – December 2010**

**Network Technician**

* Maintaining LAN and Wan environment using routers and switches, and routing protocols like **OSPF** and **BGP** with uplink to two major Service Providers.
* Upgrading the IOS on **1900**, **2900**, **3500** series **CiscoCatalystSwitches** and **2500**, **2600**, **3600** series Cisco Routers using TFTP.
* Monitoring network performance and providing status for early detection of network problems and resolutions.
* Monitoring and supporting remote offices through WAN and Internet connectivity using Cisco 3550 switches and 3600 series Routers.
* Installing and maintaining Router and Switches and replacing faulty network communications equipment from the client networks.
* Experience with routing, switching and WAN technologies such as **RIP**, **IGRP**, **EIGRP**, **STP**, **VLAN**, **ETHERNET**, **PPP**,**FrameRelay**.
* Supporting large number of customers through LAN using Cisco 2950 Switch.
* Troubleshoot network problems using **ping**, **CiscoCLI**, **tracert**, **telnet**.
* Configuration of Access Lists **ACL** (**Standard**, and **Extended**) to allow users all over the company to access different applications and blocking others.
* Configuring security services for protecting the perimeter of the network, **CiscoIOSFirewallfeatures**, **PIXFirewall**.
* Configuration of **CiscoASAFirewall55xx** series in existing network.
* Assisting fellow Junior and Senior Engineers, on-site management of cable-wiring technicians.
* Troubleshooting problems on a day-to-day basis and document every issue to share it with design teams.

**Environment : Cisco2500**, **2600**, **3600** series routers; **Cisco1900**, **2900**, **3500** series **catalyst** switches; **OSPF**, **BGP**; **PIX Firewall**, **Cisco ASA Firewall 55xx**