



Haobin (Mike) Zheng

Email: hbz.zheng@gmail.com. Cell Phone: (408) 896-7681

Summary

- **10+ years industry experiences** across functionalities including R&D and solution architect in complex technical and business environment.
- **Extensive experience at IP core/Data Center/Campus networks.** Passionate at exploring new technologies and solutions to address problems/pain points at the areas of **IP MPLS/Carrier Ethernet /LAN/WAN/Automation/Network Management/Applications.**
- Extensive knowledge at system architecture of networking equipments across vendors: Cisco, Juniper, Dell, Huawei, Ciena, Brocade, Ruckus Wireless.
- Extensive expertise in **IP routing and switching, Network security (IPSec, ASA, VPN concentration, SSL, 802.1x)**, Data Center technologies, **SDN/NFV**, Openstack, Openflow, network management, and Wifi Technologies.
- Experience in working with customers to solve complicated technical problems, optimize network design and application deployment and provide product roadmaps/features.
- Passionate in applying **software capabilities** in network design, management, performance monitoring, service provisioning. Enthusiastic in **application development in Linux and MacOS** JIRA/Confluence environment. A **quicker learner and self-starter** in fast pace environment.
- Software development/computer programming Operating System: **Python**, Ruby, MySQL, **TCL/TK**, C/C++/Java, XML, VwWorks, **IOS, VMWare/VM**, QNX, **IOS-XR, JUNOS**, and **UNIX/Linux**. Device Driver and **applications.**

Education and Certificates

MSEE, Computer Engineering, The University of Texas at El Paso June 1998

BSEE, Electrical Engineering, South China University of Tech. May 1992

MBA, Product Management, Santa Clara University March 2010

Cisco Certified Internet Expert (CCIE) in Routing and Switching (#12036), 2003

Cisco Certified Internet Expert (CCIE) in Service Provider (Written), 2004

Cisco Certified Internet Expert (CCIE) in Voice (Written), 2007

Cisco Certified Internet Expert (CCIE) in Data Center (Written), 2012

Ciena Certified Carrier Ethernet Engineer, 2013

Professional Experience

Brocade Ruckus Wireless, Sunnyvale, CA
Staff Solution Engineer

June 2016 - Present

- Design, develop, and execute test plans for validating complex Wi-Fi products and solutions.
- Work with hardware and software engineering teams during product integration phase to debug performance issues to root cause.
- Work on pre-sales Proof of Concept (PoC) deployments.
- Train and support Sales Engineering.
- Test competitive products.
- Execute standard test plans and present to cross-functional team.

TEKsystem Inc, San Jose, CA
Network Engineer (Contractor):

August 2015 - February 2016

Projects:

Cisco Cloud Service infrastructure (Cisco Systems)

Responsible for designing and lab testing ACI/APIC cloud network including server consolidation, storage consolidation, disaster recovery, backups, networking, and security. Collaborated with architects to implement spine and leaf architecture. Augmented LAN and WAN network capacity using Nexus7K, 5K and AS-R9K. Identified, delivered, and documented the required design artifacts to make the new solution capabilities generally available, including design specifications, test plans/results and training material.

Network Engineering Documentation (Paypal)



Responsible for documenting network architecture, standard procedures in routing/switching, firewall, knowledge base wiki. Worked with multiple teams to collect technical documentation requirement, topics, and project managed the network engineering process involving multiple routing/switching and firewall platforms.

Ciena Network, San Jose, CA

July 2013 – August 2015

Senior Solution Architect, Packet Networking Business Unit

- Translated **business requirements** and product **use cases** from product marketing/management into **end-to-end solution** and frameworks. Interpreted interoperability requirements from field and sales team and designed a framework to verify the solution design.
- Developed and designed building blocks for Carrier Ethernet solutions including Mobile Backhaul, Ethernet Business, **Metro fiber access/aggregation encompassing technologies MPLS-TP, OAM, PBB-TE, G.8032, QoS and network management**. Gained census from different stake holders for the execution road maps and strategies for verifying usability, performance, scalability, and reliability.
- Architected and developed an automation framework using **Python and MySQL**. The framework is designed with the concept and methodology of **Software Defined Networking (SDN)** in which **MPLS and EVC** connectivity, service provisioning, and **network monitoring** was executed on external controller and **software**. Developed Python scripts to expedite solution validation, provision MPLS services, and perform stress and performance tests.
- Worked with PLM/PLA, central solution team, R&D, and feature QA team to understand new product features and translated the new features into solution components in the frame work.
- Supported **strategic accounts** such as AT&T, Google Fiber, BT, Comcast, Mobily, AAPT, Bharti at various activities including field trial, POC, RFP, demo, de-risk testing etc. Developed collaterals such as solutions and strategies slides and collaborated with various functional groups.

Huawei Technologies, Santa Clara, CA

January 2011 – October 2013

Senior Solution Architect, Carrier IP of Global Sales

- Developed carrier IP and carrier Ethernet Solutions include 3G/LTE mobile backhails and LTE/SAE architecture, **Fixed and Mobile Convergence (FMC), IPv6 transition, IPTV and IP/MPLS backbones**. Delivered POC/solution testing and provide sales support to key accounts in North and South America.
- **Acted as SME of IP/MPLS/Carrier Ethernet/OTN/DWDM/IP RAN/IPv6/OAM and 100G IP OTN** synergy to influence technical decisions makers at various levels up to CXO. Performed competitive marketing analysis including feature, performance and scalability against major competitors Cisco, Juniper and Alcatel-Lucent.
- Validated system and network performance/scalability and latency/jitters understand various customer requirements. Helped account team to answer RFP/RFI with lab verification as well as collaboration with R&D.
- Supported PM team in establishing roadmaps for the products and features. Led field training and sales enablement through technical deep dives. Assisted in high-touch customer support and escalations.
- Supported various industry forums such as **World MPLS and IPv6 Forum and delivered presentation**; supported trade show and IP technology summits and engaged in partner business development.

AT&T Mobility, Pleasanton, CA.

May 2009 – January 2011

Senior Network Architect (Contractor)

- Provided network planning and design of AT&T GPRS and 3G UMTS network. Wrote engineering documents and MOPs for network implementation and migration; **Documented L2/L3 topology, VLAN/STP, routing protocols, L2/L3 VPN, and BGP routing policies and implementation methodologies**.
- Migrated edge networks and legacy cores to connect to Common Backbone (CBB). Design optical circuits, capacity augmentation, configuration, and translate configuration between Cisco and Juniper equipment.
- Managed IP address space (IPAM) for bearer and GPRS/UMTS networks including IuPS/IuCS/IuR, RNC, SGSN, GGSN, MSC, MSN, SIAD, and Node B. Trouble shot various network problems.
- Interfaced with vendors (Cisco and Juniper) for configuration verification, feature request and equipment acquisition.

Juniper Networks, Sunnyvale, CA

October 2007 – April 2009

Staff Technical Support Engineer

- Supported Juniper's mega accounts for service providers and enterprises. Worked closely with service managers, SEs, residential engineers and R&D for provide post-sales support and resolve major outages.



Maintain customer relationships by communicating with various levels of customers. Provided technical training to both customers and residential engineers.

- Responsible to support resolving **escalated P1 and P2 cases on Juniper M, T and MX series platforms**. Trouble shoot deep technical problems in both protocol and hardware related areas. Provided balanced solutions with hard-fix and/or blend of trade-offs.
- Performed complicated lab testing to reproduce problems using Agilent and IXIA router testers (IXIA explorer, IxChariot, IxLoad, IxNetwork). Worked with POC team to perform large scale lab testing.
- Thought leadership in building knowledge base and improving support process. Reached out to account team for better understand of customer's network and operations.

Cisco Systems Inc, San Jose, CA

November 1998– October 2007

Senior Advanced Services Engineer/Software Engineer

- Supported key APAC Data Center customers by architecting, planning and documenting **Data Center architecture** and best practices. Built **hyper-converged DCN network** using Cat6K service modules: load balancing, SAN, security, SSL offloading, HTTP inspection, and service/storage/I/O virtualization. Supported APAC AS teams delivering documentation and participating pre-sales activities. Supported TAC and engineering to resolve critical problems; Maintained customer relationship by visiting and presentation.
- Provided consultative, proactive and/or reactive support to assigned Cisco service provider and enterprise accounts. Performed network planning, design, implementation, operation and optimization (PDIOO); Worked with pre-sales to execute **proof of concepts (POC)** and validate low-level design. Delivered bug-scrub to help customer with software strategies and code recommendation. Performed infrastructure design, implementation planning, deployment support, performance engineering and optimization; Delivered knowledge transfer for new features and system architecture. Performed network auditing/sizing, pre-staging, pre-configuration, and acceptance of Cisco product in execution or advisory/assistance or support models; Maintained account relationship and retain annual service renew. Assisted TAC to resolve complex P1/P2 problems.
- Responsible of test Cisco **Network Management (NMS)** software CiscoWorks2000 (Now Cisco Prime) . Performed SNMP MIBs test and validated accuracy of network functionality. Performed scalability and performance test in large ATM, Ethernet, Frame Relay, and Token Ring network.
- Responsible for system and scalability test on IOS XR routing protocols on CRS-1 and GSR platform. Led scalability and system integration test on Multicast PIM SM/SSM/Bidir, IGMP and MSDP, AutoRP, and static RP.
- Tested large network emulating customer environment with **various Cisco platforms running routing protocols: MPLS VPN/MPLS TE, LDP/RSVP, PIM-SM/IGMP, ISIS, and OSPF, MP-BGP**. Development tested Cisco First 10G POS line cards with major SP customers. Provided field support for France Telecom, Global Crossing, AT&T, Comcast and other SPs.