



Mike (Haobin) Zheng

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Objective: Seeking a challenging position at network engineering for Data Center/Cloud infrastructure.

SUMMARY OF QUALIFICATIONS:

- Over 15 years industry experiences across various functionalities including embedded software development, system test, sales support, professional services, marketing and solution development. Extensively experienced at service provider and carrier networks at the level of "hands on" and architecture. Proved track record for "proof of concept" testing, system testing and solution testing. Extensive experience at IP core network/Data Center/Campus network design and optimization. Passionate at exploring new technologies and solutions to address problems/pain points at the areas of IP/MPLS/Carrier Ethernet /WAN/QoS/Automation/Network Management.
- Extensive knowledge at system architectures of switching and routing equipments, including Cisco CRS-1/3, GSR(C12000), 7600/6500/4000/3500, ASR9K, ASR1K, Nexus 7K/5K/2k, UCS, ASA, ISE, ONS 15454 MSTP, Juniper M/T/J/MX/PTX series routers, Huawei NE40/NE5000/ATN/PTN/MA5600T series, Dell Force-10 S4800/E-12000/C-300 Series Data Center switch routers.
- Extensive expertise cross technology domains: IP routing and switching technologies (routing switching protocols ISIS, OSPF, BGP, RIP, EIGRP, TCP/IP, RSVP, LDP, MPLS-TP, MPLS-TE, Inter-AS VPN, L2/L3 VPN, PIM/IGMP/MLD, DNS, STP/RSTP, 802.1Q, LAG/MCEC, ECMP, VRRP, QoS, SNMP), 10G/40G/100GE and Carrier Ethernet E-LINE/E-LAN/EPL, IPv6, OTN/DWDM, GMPLS, WSON, SONET/SDH, FTTX, DSL, T1/E1, 3G/LTE Mobile Backhaul, Packet timing IEEE 1588v2 and SyncE, PBB and QinQ, Ethernet OAM (802.3ah, 802.1ag, Y.1731), Network security (IPSec, ASA, VPN concentration, SSL, 802.1x) Data Center technologies (load balancing, vPC, Fabric Path, OTV, Flexlink 802.1Br, UCS, VMWare, FCoE, NPV/NPIV, iSCSI, DCB, Content Switching, WAN optimization), SDN, Openflow and network management.
- Excellent communication skills, proven creativity to fuel project directions and decisions. Utilize strong analytical, team collaboration, creative and problem solving skills to bring technical projects to fruition. Demonstrate the ability to find common grounds and initiate fierce conversations that lead to win-win.
- Cisco CCIE Routing and Switching #12036. Cisco CCIE SP and Security Written. 2001 Cisco Technology Award winner of GSR 10G Project. 2003 Cisco Pioneer Technology Award winner for CRS-1 Carrier Router System.
- Automation test methodologies using TCL/Python/C++/Java/Perl/Ruby along APIs from test equipments including IXIA, Agilent Router Tester and Spirent. Experienced at setting up regression test bed running automation scripts to support various product development cycles.
- Computer programming and Operating System: Python, Ruby, MySQL, TCL/TK, C/C++/Java, Objective-C, XML, VwWorks, IOS, QNX, IOS-XR, JUNOS, VRP and UNIX/Linux. Device Driver and applications.

EXPERIENCE:



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Ciena Network, San Jose, CA

7/2013 – Present

Senior Solution Testing Engineer, Carrier Ethernet Business Unit

- Developed and verified 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.
- Translated RFI requirement and use cases and input to product features and roadmaps.
- Worked with PLM/PLA, central solution team, R&D, and feature QA team to understand product capacities.
- 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 collaborate with various functional groups.

Huawei Technologies, Santa Clara, CA

2/2011 – 10/2013

Senior Technical Marketing Engineer

- Developed carrier IP and carrier Ethernet solutions for mobile/fixed Telecom Carriers and large internet service providers. Solutions include 3G/LTE mobile backhauled and LTE/SAE architecture, Carrier Ethernet for Fixed and Mobile Convergence (FMC), IPv6 transition, IPTV and IP/MPLS backbones. Delivered POC and solution testing as well as solution documents to the sales team.
- Worked with solution/system test and PLM to fine tune testing scenarios to reflect customer/field requirements for various platforms NE40/NE5000/ATN/PTN/MA5600T. 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.
- 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.
- Competitive comparison between Cisco ASR9k, Nexus 7k/5k and Huawei
- Supported various industry forums such as World MPLS and IPv6 Forum and delivered presentation; supported trade show and IP technology summits by demo of carrier Ethernet products/solutions/features.

AT&T Mobility, Pleasanton, CA.

5/2009 – 1/2011

Senior Network Architect

- Provided network planning and design of AT&T GPRS and 3G UMTS network. Wrote engineering documents and MOPs for network implementation and migration; Documented



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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 Staff Technical Support Engineer

11/2007 – 4/2009

- 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.
- 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.

Cisco Systems Inc, San Jose, CA Senior Development Testing Engineer

11/1998–10/2007

- Responsible for system and scalability testing 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 etc.
- Designed large network to emulate 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.

Education

MSEE, The University of Texas at El Paso June 1998

BSEE, South China University of Tech. May 1992

MBA, Santa Clara University March 2010