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SENIOR NETWORK ENGINEER – OPERATIONS & ENGINEERING

Extensive exposure in driving critical assignments across the career with proven success in ensuring optimum results

PROFESSIONAL SYNOPSIS

- Solutions focused, meticulous and result oriented **Senior Network Engineer** professional offering **11 years** of successful career in IT & Telecom arena distinguished by commended performance and proven results.
- Proven track record of excellence in analyzing business requirements to develop technical network solutions and their framework; Leadership role on network infrastructure projects to design and architect large-scale networks.
- Instrumental in developing architectural strategy, including technology standardization and modernization of enterprise, data center network infrastructures.
- Adroit in writing reference architectures and strategic roadmaps for network & network security technologies, and solution architectures for various infrastructure initiatives.
- Synchronize with other Architects in designing solutions that are reusable, quick to market, and lower the total cost of ownership.
- Highly articulate, demonstrating exceptional relationship building, communication, analytical and interpersonal skills.
- Cisco **CCDE #20160044**, Cisco **4xCCIE #37259**, Juniper **3xJNCIE # (615 | 352 | 88)**, VMware **VCIX-NV, VCP-DCV**, Palo Alto ACE, **PCNSE** with an impressive track record of managing high-end Enterprise and Service Provider projects for some of the leading companies in the world.

AREAS OF EXPERTISE INCLUDE

<i>Enterprise Architecture</i>	<i>Design & Architecture</i>	<i>Relationship Management</i>
<i>Service Providers Architecture</i>	<i>Professional Documentation</i>	<i>Time Management, Network</i>
<i>Datacenter Solutions & Architecture</i>	<i>Team Management and Leadership</i>	<i>Operations</i>

PROFESSIONAL CONTOUR

Organization	Designation	Duration
Acuative (KAUST Project)	Network Specialist	April '13 – Feb'20
GlobiNet Solutions (STC Project and KAUST Project)	Network Engineer	Aug '09 – Mar '13
Accsys (SBM Project)	Network Engineer	Apr '08 – Aug '09

Network Architect

VR Networks Inc.

<http://www.vrninc.com/>

March 2020 – Present - Texas, US



Working as Network Architect to provide technical consultancy for network operation and service improvement for various types of technology solutions to achieve business goals for complex designs, build and operate for both new and existing organic growth aligned with company strategy and solutions.

Responsibilities:

- Acts as customer advocate for the company network infrastructure needs and ensure that day to day operation activities to minimize the business disruption.
- Activity participating in business team meeting to understand the business needs and translating into Infrastructure reliability and availability.
- Leading judgment in complex, high pressure situations.
- Analytical and problem-solving skills with strong understanding of troubleshooting techniques. Server, storage, network, virtualization and application performance prospects.
- Research, Evaluate and recommend tools can provides visibility to the health of the network for proactive monitoring to prevent potential major incidents.
- Identifies and remediates gaps in network and security as it relates to best practices, compliance, security standards, and performance.
- Time management and managing multiple high-priority assignments within a high-volume work environment.
- Support the implementation of network architecture standards across projects and initiatives.
- Cisco, Juniper, VMware NSX, Cisco ACI, SDA, Cisco ISE, Cisco Wireless, SD-WAN, Enterprise Routing, Switching, Data Center Routing, Switching, Nexus, Juniper QFX, Juniper EX, Juniper MX, Juniper SRX, Cisco FTD.

Network Engineer/Specialist - April'13 to Feb'20

Middle East (formerly ThruPoint) – (Client: KAUST Project)

<https://www.acuative.com/> - Riyadh, Saudi Arabia



- Spearhead network engineering project planning, Design, implementation, and coordination in a professional, accurate and timely manner.
- Ensure high network availability & optimal network performance; Initiating network research, design & planning to enhance the network reliability and capability, planning large-scale network projects, and recommending network architectures that support the company's strategic directions.
- Demonstrated excellence in the Design & architecture of company's wide area networks.
- Formulate Networking Projects documentation HLD, LLD, NMP/NIP, NRFU.
- Focus on Enterprise Service Provider and Datacenter architecture.
- Lead network critical migrations, MDT and implementations.
- Deliver technical presentations and attend technical discussions to prepare optimum solutions.
- Key role in Customer network operations, troubleshooting and providing a root cause analysis report for critical network failures, Managing AAA Radius/LDAP, 802.1X, MAB.
- Write security impact analysis & change management documents for any new setup including upgrade/migration or patching monitoring and training junior engineers. Remote support within Service Level Agreements (SLAs) to resolve client incidents, perform root-cause analysis and adhere to any related process such as change Management.
- Supporting presales engineers in replying to RFPs and formulating BoQ for large networks.
- Responsible for the network, server and storage infrastructure policies, procedures, standards and oversight to the systems integration and partners. Developing project architecture ensuring the solutions aligned with the enterprise strategy and development designs catering for specific project requirements.
- Responsible on Configuring and troubleshooting Cisco unified wireless networks and Autonomous systems containing WLC, WISM, WCS, NCS, Prime Infrastructure, and all Cisco Bridges.
- Managing core network, business, and scientific research data center including supercomputer communication with other systems. Managing virtualization infrastructure, Juniper SRX, Cisco UCS, VMware vCloud Automation.

Network Engineer - Aug'09 to Mar'13

GlobiNet Solutions (Client: Saudi Telecom Company (STC) Project and KAUST Project)

<http://globinet.net/> - Riyadh, Saudi Arabia



KAUST Project:

Worked with KAUST (King Abdullah University of Science & Technology) in network operation center, my responsibilities was to do provide IP/MPLS core network operational support and also responsible for day-to-day operations, maintenance, upgrade, root cause analysis for major incidents, multi-tenant customer configuration, integration and troubleshooting where I exercise my skills i.e.: BGP, L2VPN, L3VPN's, QoS, NAT, OSPF, ISIS, EIGRP, PBR and other complex routing architectures.

Saudi Telecom Company (STC) Project:

- Insure the designated operating of STC IP/MPLS core network.
- Review Migration activities and updates and check against STC migration best practices and the Gap Analysis report from the Infrastructure Assessment Project.
- Participate in impact and risk assessment discussion.
- Root Cause analysis of the network outages & vendor compatibility issues.
- Maintains and operates STC Control Devices & Protocols, such as Route Reflector, BGP/MP-BGP, ISIS, MPLS LDP, Links utilization.
- Implementing maintenance operations on IP/MPLS network nodes including Cisco 7600, Cisco 12000 GSRs, CRS-1.
- Keep track on STC VIP customers, DSL and Internet Service Providers, MPLS VPNs, MPLS L2 VPN, IPTV and FTTH services.
- Oversee and troubleshoot international services, POPs and the international circuits (L2VPN, MPLS VPN).
- Support other vendors like Juniper, HU, Ericsson & ALU, lead conference calls for troubleshooting multi-vendor services.

Network Engineer – Apr'08 – Aug 09

Accsys (Client: Saudi Telecom Company (STC) Project)

<http://accsyscom.com/> - Riyadh, Saudi Arabia



- Lead NOC team and monitor team performance that fulfils the SLA parameters along with the designated service operation.
- Keep all the service-related parties updated of a certain network outage within the SLA conditions.
- Generate Technical reports for STC management.
- Guide and mentor team members and keep them up to date.
- Troubleshooting Home & enterprise customer circuits including DSL leased Lines, MPLS VPN, and SIP Modem configurations.
- Build the required network infrastructure at customer site network to support the needed services.
- Generate technical reports related to customer BW.

KAUST Datacenters Project:

Role: Senior Network Engineer

KAUST undertook a mega project to build 3 datacenters for Supercomputer backbone and Business Centre. The core technology for these datacenters is Cisco ACI Fabric, F5 and other vendors are part of this project. The project is implemented in two phases.

Key Deliverables:

- Assigned as a Technical Lead for this project.
- Attend Design workshops in the 1st and 2nd phase.
- Revise Design Documents (HLD, FDD, BoQ)
- Define Scope of Work and the responsibilities for each vendor in this project.
- Revise and approve design documents.

KAUST Campus Core Project:

Role: Senior Network Engineer

KAUST has world class network infrastructure which contained 8 Cisco CRS, responsible for design, enhance and implement the recommended upgrades and solutions.

Key Deliverables:

- Assigned as Senior Solution Architect for Campus Core SP and Datacenter Solutions and implementations.
- Introducing Solutions to vendor to creating the required documentations and presentations.
- Supporting Pre-Sales team in preparing the Solutions.
- KAUST Project is a frame contract project, achievements are:
 - KAUST MPLS Core Network Enhancement.
 - KAUST FTTH Aggregation Enhancement.
 - KAUST Affiliates Network Upgrade.
 - KAUST ISE distributed deployment.
 - perfSONAR(CentOS7) based network bandwidth monitoring system 35 Nodes Deployment.
 - KAUST Tech Refresh 2013 including:
 - IGW Upgrade and Enhancement.
 - DC Nexus Core Upgrade and Enhancement.
 - Wireless Network Expansion.
 - Cisco ISE designing and implementation.

KAUST Network Operations Project:

Role: Operation Team Lead Engineer

KAUST has world class network contain 8 CRS, 60 Cisco 7609 PE, and 4 IGW 7609, Wireless Controllers, IPTV, and Voice setup.

Key Deliverables:

- Configuring, Troubleshooting, CRS, PE, UPE, Routers with the IP addresses to BGP, ISIS, MPLS and Connectivity between ISP Clouds.
- Attending SAT and PAT for these Sites.

STC IP/MPLS Project:

Role: Network Engineer

STC has a world-class MPLS network, where it has 11 CRS-1 4 of them multi-chassis (as Core), GSR1200 (as Real Time PEs) and a mixture of 7609/7613 (as NPE and PE-Aggregators).

Worked as Core Implementation Team (CNI) team Network Engineer role in STC and technical support coordinator for multiple other projects; my responsibilities were to migrate whole Kingdom network (224 Cisco 7609 PE-Agg) to new EVC infrastructure with all existing services.

STC EVC Manual Migration 2011 Project:

Role: Network Engineer

STC is introduced QoS new service to customers, where each business customer will be having a different class of service independent of other customers. Main responsibilities were to replace legacy 7600 Ethernet card with ES+ card and migrate all switchport trunk links to EVC routed port across the kingdom include all the service related to interfaces i.e.: L2VPN, L3VPN, VPLS.

STC IP/MPLS Core Expansion 2011 Project:

Role: Network Engineer

IP/MPLS is yearly upgrade project reported by STC, I was responsible 2011 project including 3 CRS-1 Upgrade, 16 GSR RTPE Upgrade with SIP6-1 and 10GE SPAs, 40 PE-Aggs Upgrade with ES40G+, 30 PE-Aggs Power Supply Upgrade to 6000 watts, 17 New 7609 PE-Aggs, ES20 to ES+ Migration.

STC Inbound Migration 2011 Project:

Role: Network Engineer

The role of this project was to migrate all global management plans on more than 300 sites over the Kingdom under one L3VPN that will enable STC to access all access level management devices through one common router which we called inbound router. I was responsible for developing NIP, NRFU configuration template verification and implementation during MDTs.

STC IP/MPLS Core Expansion 2010 Project:

Role: Network Engineer

IP/MPLS is yearly upgrade project reported every year by STC, I was responsible 2010 this expansion includes New CRS-1, CRS upgrade, 13 New Cisco 7609, LAN card to ES40+ migration on 75 sites, ES4T+ on 30 NPE sites & power upgrade, Shadow Router redesign, New Cisco 7609 VPEs at 6 sites.

STC Out of Band LLD Expansion 2010 Project:

Role: Network Engineer

The aim of the out-of-band network is to provide connectivity to network devices when in-band IP connectivity is not present due to network or transmission problems in this project I was responsible to integrate 9 new sites and update 74 sites over the kingdom.

STC Core Network Clean-up Project.

Role: Network Engineer

In this project we are cleaning all unnecessary configurations all over the core network.

Key Deliverables:

I am working as EVC implementation team in STC plus technical support coordinator for multiple projects, responsibilities include migrating whole kingdom (224 Cisco 7609 PE-Agg) to new EVC infrastructure with all existing services.

STC IP/MPLS SLA 2009 Project Phase I:

Role: Network Engineer

New installation at 115 sites, basic configuration, testing, and troubleshooting, The role of this project was to install Shadow Routers at 115 Sites around the Kingdom that will enable STC to provide a new Service to their customers that enable them to calculate the performance of their connection to STC by measuring some attributes such as: Jitter, Packet loss and end-to-end delay, Hardware Cisco routers used 2800, 3800, 7200.

STC 7513 Migration Project:

Role: Network Engineer

STC has a world-class MPLS network, where it has 10 CRS-1 (as Core), GSR1200 (as Real Time PEs) and a mixture of 7500/7600 (as PE and PE-Aggregators). STC had a requirement to migrate all their 7513 PEs to 7613. I was involved in this project working in MDTs to migrate customer's circuits from 7513 to 7613, which was challenging as it required high attention to detail skills. This project included 22 sites over the Kingdom L2/L3 VPNs, hardware: GSR, CRS, 7600.

CREDENTIALS

- Bachelor's Degree, Computer Science (**BSCS**) with 3.32/4 GPA - AL-Khair University (AJ&K), Pakistan

HIGHEST PROFESSIONAL CERTIFICATIONS

- Cisco Certified Design Expert (**CCDE**), Washington, US - by Cisco Systems, License #**20160044** Nov '16
- Juniper Network Certified Expert (**JNCIE-ENT**), Amsterdam, Netherlands - by Juniper Networks, License #**615** Apr '17
- Juniper Network Certified Expert (**JNCIE-SEC**), Amsterdam, Netherlands- by Juniper Networks, License #**352** Mar '18
- Juniper Network Certified Expert (**JNCIE-DC**), Amsterdam, Netherlands- by Juniper Networks, License #**88** Apr'18
- Cisco Certified Internetworking Expert (**CCIE Wireless**), Dubai, by Cisco Systems, License #**37259** Nov '19
- Cisco Certified Internetworking Expert (**CCIE Security**), Dubai- by Cisco Systems, License #**37259** July '18
- Cisco Certified Internetworking Expert (**CCIE Data Centre**), Dubai - by Cisco Systems, License #**37259** Mar '14
- Cisco Certified Internetworking Expert (**CCIE SP**), Brussels, Belgium- by Cisco Systems, License #**37259** Oct '12
- VMware Certified Implementation Expert (**VCIX-NV**), Dammam, KSA- by VMware Oct '16
- VMware Certified Professional 5 Data Centre Virtualization (**VCP5-DCV**), Jeddah, KSA - by VMware Jul '14

INDEPENDENT TRAININGS

- Cisco Application Centric Infrastructure (**ACI**) – 5-day Bootcamp, Jeddah, Saudi Arabia
- Cisco Certified Internetwork Expert (**CCIE**) Security v5 – 5-day Bootcamp, Jeddah, Saudi Arabia
- Cisco Data Centre Unified Fabric Design – 5-day Bootcamp, Jeddah, Saudi Arabia
- Cisco Certified Internetwork Expert (**CCIE**) Data Centre – 5-day Bootcamp, Jeddah, Saudi Arabia
- VMware vSphere Install, Configure and Manage (**VCIM V5.5**) – 5-day Bootcamp, Jeddah, Saudi Arabia
- Cisco ACI Field Engineer and SE Trainings – 5-day Bootcamp, Jeddah, Saudi Arabia
- Palo Alto Firewall Essentials Configuration and Management (**EDU-210**) – 5-day Bootcamp, Jeddah, Saudi Arabia

AREA OF INTERESTS

Data Center Transformation, Data Center Modernization, Virtualization, Service Provider Networks, SDN, NFV, NV, IoT, Team Management, Manage Services. Open Source Networks, Cisco, Juniper, VMware and Automation.

Year of Birth: 1979