

# OMAR J. CHARRICK

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## IT PROGRAM DIRECTOR ♦ SENIOR DATA CENTER NETWORK SECURITY ENGINEER

**CERTIFICATIONS:** Cisco ~ CCIE ~ CCDE ~ Checkpoint ~ CSE ~ Microsoft ~ MCSE ~ MCP+I ~ OPNET ~ OCNP ~ OCAXP

*Influential leader with advanced expertise in emerging technologies, system/application/network virtualization and cloud infrastructure evidenced by 19+ years' success in driving global multi-vendor security/data/voice networks that increase security and performance across financial services, e-commerce, manufacturing and pharmaceutical industries*

### AREAS OF EXPERTISE

- ♦ Client Requirements Analysis
- ♦ Latency & Capacity Planning
- ♦ Multicast Protocols
- ♦ High Availability Design
- ♦ Market Data Delivery
- ♦ Data Center & Network Design
- ♦ BGP & MP-BGP Administration
- ♦ MPLS/VPN/TE Configuration
- ♦ IP Routing Optimization
- ♦ Business Continuity & Security
- ♦ Team Mentoring & Leadership
- ♦ Project & Deliverables Management
- ♦ Standards/Procedures Development
- ♦ Stakeholder & Vendor Relations
- ♦ Pilot Site Implementation

### PROFESSIONAL HISTORY

**FINANCIAL SYSTEM COMPANY**, City, State, Year – Present

#### IT Director

Liaise between sales, account/project management and clients in spearheading creation of end-to-end enterprising platform solutions for (privately-owned) leading global distributor of real-time, multi-asset financial market data.



- Drive engineering team in design, optimization and implementation of MPLS/VPNv4 across firms' backbone and 20+ ticker plants spanning U.S., London, Europe and Asia with access to more than 150 financial exchanges.
- Serve as lead post-sales engineer responsible for gathering client network requirements and designing optimal layer 2/3 solutions to deliver normalized, direct and consolidated multicast products in line with industry's best practices.
- Create project/implementation plans for infrastructure, deployment and support teams, ensure delivery of time-sensitive milestones and draft/present technical documentation to senior management.
- Act as Level IV escalation contact and subject matter expert (SME) for day-to-day issues.

#### Key Contributions:

- Led traffic engineering project that standardized and optimized all NA ticker plants to advance data center design and attain resiliency of exchange paths for delivering raw feed multicast (NASDAQ, SFTI, DirectEdge, BATS, CBOE and CME).
- Designed and deployed MPLS/ TE tunnels and Class-based Tunnel Selection (CBTS) solution that provided deterministic, resilient and ultra low-latency paths for trade execution and client network services.
- Architected and implemented quality of services (QOS) solution on global backbone to optimize network resources for low latency applications, critical business products and services, such as Order Routing.
- Utilized single/multiple ASIC architectures of Cisco and Arista switches to achieve zero-drop goal for multicast market data distribution at all tiers.

**IMAGING MANUFACTURER**, City, State, Year – Year

#### Senior Network Architect (Year – Year)

Oversaw team of network data/voice/security engineers and devised measures that focused on doubling ROI for world-leading imaging systems manufacturer with \$11.7B+ in sales and 200+ sites across North/Central/South America.

#### Key Contributions:

- Designed data center and accomplished virtualization of integrated services, applications, self-healing and resiliency through deployment of BGP multi-home, multi-link, FabricPath, vPC+ and Nexus 7018/5500/FEX 2200/1000v.
  - Enabled center to function as e-commerce/customer support site while realizing \$10M in outsourcing savings.
- Redesigned, optimized and migrated Frame Relay network to MPLS MP-BGP and streamlined Network WAN/LAN to serve business application requirements for performance, low latency, management auditing and security.



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## IMAGING MANUFACTURER (Key Contributions Continued)

- Co-led revenue-generating CRM deployment solution (backbone of vendor/supply chain/AP operations valued at \$.5B+) and managed overhaul of global network in compliance with capacity/performance and PCI standards.
- Delivered *Border Gateway Protocol* that facilitated sharing of load traffic across four ISPs with 100% uptime.

## Senior Network & Security Engineer (Year – Year)

Drove capacity planning, design, implementation, security and delivery of end-to-end quality of services (QOS) to accommodate VoIP deployment and Checkpoint infrastructure upgrade, clustering NGX/R environment at 20+ sites globally Enabled technology acquisitions and large-scale applications/exchanges within project and budget parameters.

## PHARMACEUTICAL, INC., City, State, Year – Year



### Associate Director (Advanced from Senior Manager, Project Leader and Lead Network Technologist)

Helped foster growth from \$600M to \$5.6B in sales by managing multi-million capital budget and realizing distributed development of large-scale business applications for units in North America, Canada, Puerto Rico and linkages to France.

- Co-led think-tank team in deployment, implementation and migration of company to Active Directory encompassing over 33K users and 220 global-wide sites; completed project efficiently and within defined SLA.
- Carried out Remote Access Strategy with Nortel Contivity VPN/Security Dynamics Servers for national sites to accommodate 4,000 VPN connections and effectively support sales force of 4,700.
- Created, installed and deployed System Management Servers and HR Application, which led to savings of \$500K.

## EDUCATION

**MS, INFORMATION SYSTEMS ENGINEERING (ISE)**, Technical Institute  
**MS, PHYSICAL SCIENCES**, City College ~ **BS, PHYSICAL SCIENCES**, University

## TECHNICAL & LANGUAGE EXPERTISE

<i>Multi-layer Platforms</i>	<u>Switches</u> : Cisco Catalyst 6500, 4900, 3700, 2900, 3500; Nexus series 7000/5000/3000/2000 and Fabric Extender Arista: DCS-7100/7050/7150 <u>Routers</u> : 7600, 7500, 7200, 7200 VXR, 3900, 3800, 2900, 1900, 800, ASR 1000 & 9000 <u>VMware</u> : vSphere ESX, and vSphere ESXi Version 4/5 Enterprise Plus, BlueCoat, Websense. <u>Servers</u> : HP/Dell/IBM, EMC Symmetrix/Clarion, Wireless Controllers
<i>WAN/LAN</i>	VPLS, Layer 2 VPN, VPN, TCP/IP, Frame Relay, ATM, T1/T3, ISDN/DDR, MPLS, MP-BGP/MPLS/TE, NAT, TACACS+, RADIUS, LAN Switching, VLAN, Ethernet, EtherChannel, 10 Gigethernet, HSRP, VRRP, GLBP, OTV, ECMP, MEC, TRILL, DCB, FabricPath Switching, Any Transport over MPLS, Private MPLS, Load Balance F5 LTM, Cisco ACE, GSS, Data Center Networking
<i>Multicast Protocols</i>	IGMPv2/v3, PIM-DM/PIM-SM/PIM-SSM, MSDP/MP-BGP/Anycast-RP
<i>Network Modeling</i>	IT Guru Network Planner, NETDoctor (NETDR), AppTransaction Xpert (ACE), ACE Live VMon
<i>Operating Systems</i>	Cisco IOS 11.xx-15.xx, Cisco IOS-XE, IOS-XR, Cisco Nexus (NX-OS), Linux; Red Hat Enterprise Linux, SUSE and Ubuntu, Windows NT, Windows 2000/03/08, and HP-UX
<i>IP Routing &amp; Security</i>	IPv6, BGP, MP-BGP, OSPF, EIGRP IPv6, RIP, IS-IS, GRE & mGRE, NHRP, IPsec, IKE, ISAKMP, Multicast/PIM, F5 SSL VPN Concentrators. Cisco ASA Firewalls/IPS/IDS/FWSM 8.2, 8.3, 8.4, Checkpoint Firewall/VPN/IDS/SPLAT, AI, NGX,R60-R75, Nokia IPSO with Checkpoint Firewall, F5 SSL VPN Concentrators, Nortel Contivity, RSA, Bind & MS DNS, DHCP, Juniper Junos
<i>Tools</i>	CiscoWorks, HP OpenView, eHealth Suite (Concord), NetScout, Sniffer, Visio, OPNET, Wireshark, NetFlow and nGenious Probes, Cisco PPDIOO Lifecycle
<i>Applications/Languages</i>	C++, Java, HTML, SQL, Perl, Tcl, Python, MS Office Suite, and MS Project, Oracle 7x/8x/9x/11i, MS SQL Server, and MS Access; Fluent speaking, reading and writing Arabic

Keywords: chief/principal technical architect, IT director, director of information technology, network operations group leader, lifecycle, technical selling strategies, IP Telephony, procurement plans, data modeling, trending, change implementation, DMZ, load balancing, switch configuration, customer interface