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### **Professional Objective**

Permanent position in technical/engineering management, senior technical consulting, or senior network architecture as part of a bright, dedicated team in Cincinnati or Indianapolis regions, preferably with a Fortune 500 firm

### **Profile**

An accomplished self-starting networking and telecommunications industry veteran with natural leadership ability, strategic insight, and outstanding ability to rapidly learn and apply new technologies as well as operate autonomously leading large-scale projects.

- Over twelve years in high-end Cisco enterprise and data center network design for growth and *Fortune 500* companies
- Six years in engineering management, including high-tech startup leadership as Founder and Chief Technology Officer
- Nine years in Internet backbone architecture, large scale, high performance network design and ISP technical consulting
- Independent consulting in network architecture, implementation engineering and project management
- Four years financial and high-frequency trading industry network architecture and design
- Unix/Linux system administration proficiency with BSD, Mac OS X, and Linux
- Expert in remediation of difficult and complex network engineering challenges, especially with demanding timeframes and high visibility
- Outstanding communication, presentation, and documentation skills, especially presentation of technical information to executive audiences
- Technical expertise detailed in addendum

### **Senior Networking Consultant, TEKsystems Inc.**

**November 2015 to Present**

*Complex network architecture consulting for TEKsystems, Inc. in direct support of AT&T, DXC, and Procter and Gamble*

#### **Roles and Responsibilities**

Technical leadership for major network initiatives, network architecture and design, third-tier network support, delivery of highly customized data center network services, extensive technical documentation and network diagrams, and the creation and presentation of both low and high level technical project information to diverse engineering and management audiences.

#### **Key Successes**

- Provide technical leadership for LCM migration from Cisco to HPN infrastructure across multiple P&G data centers
- Network architecture, design, and delivery for P&G secure hosting initiative, dedicated data center high resiliency initiatives
- Responsible for deployment and software configuration of multiple highly customized dedicated P&G data center environments

### **Senior Networking Consultant, Pomeroy**

**July 2014 to October 2015**

*Post-sales lead delivery engineer for large, high visibility projects with a primary focus on Cisco Systems next-generation data center, security, and enterprise networking products, including Nexus, UCS, and Cisco wireless. Additional pre-sales support as required for a given opportunity.*

#### **Roles and Responsibilities**

Lead delivery engineer responsible for post-sales implementation of complex data center, security, and wireless networking solutions utilizing Cisco Systems products and validated designs. Provide guidance and direction to delivery engineers in other areas of expertise including collaboration, mobility, identity management, data storage and warehousing, and server infrastructure. Provided supplemental contractual support and documentation, extensive network architecture design and documentation, and supplemental customer knowledge transfer. Limited Tier-4 incident support on an individual customer basis.

#### **Key Successes**

- Assisted in closure of \$8M campus refresh opportunity by providing extensive pre-sales data center, UCS, enterprise networking, and wireless solutions engineering support
- Lead delivery engineer for \$7M whole-campus network infrastructure refresh at regional university

### **Cisco Architect, MTM Technologies Inc.**

**July 2013 to June 2014**

*Pre-sales network and data center architecture and consulting engineering, with a primary focus on Cisco Systems next-generation data center and switching infrastructure products, including Nexus and UCS. Additional pre-sales support for RightFax, Bluecoat, F5, and Hewlett-Packard network and server product lines.*

#### **Roles and Responsibilities**

Provide Cisco Systems product consulting engineering leadership for enterprise customer design initiatives and product and technology solutions for MTM's Midwest region. Provide supplemental network architecture and design expertise to other

regions as needed. Responsible for construction of contractual documentation, solutions engineering, and equipment specification. Limited post-sales installation, customer assurance, and incident support on an escalation basis. Support knowledge transfer initiatives, generate training collateral, and drive training initiatives for Cisco Systems products. Heavy emphasis on next-generation Cisco data center technologies, including Nexus and UCS.

#### **Key Successes**

- Completed Cisco Data Center Architecture Specialist certification in less than 30 days
- Completed Cisco Nexus and Cisco UCS certifications

#### **Senior Networking Consultant, TEKsystems Inc.**

**January 2011 to June 2013**

*Complex Network Architecture Consulting for TEKsystems, Inc. Assignments have included extensive architectural documentation and presentation for Cisco Systems, Inc, network remediation for AmeriGas, Inc., and client divestiture support for Hewlett-Packard Global Services*

#### **Roles and Responsibilities**

Senior networking consultant with TEKsystems, Inc. on contract assignments to Cisco Systems, AmeriGas, and Hewlett-Packard Global Services. On behalf of Cisco, provided comprehensive creation and management of lifecycle documentation for large scale network remediation project with General Electric Aerospace. Created migration plans, extensive technical drawings, and presented both low and high level technical project information to diverse engineering and management audiences. On behalf of HP, provided long-term network support for remediation and integration of Sara Lee global network for divestiture of two major business divisions.

#### **Key Successes**

- Created and managed network and implementation documentation for GE Aerospace global network redesign
- Responsible for integration and deployment of HP Networking, Cisco, and F5 infrastructure with Sara Lee for data center and global WAN architecture across three corporate entities during divestiture.

#### **Senior Trading Network Engineer, PEAK6 Investments, L.P.**

**December 2008 to December 2010**

*Proprietary trading firm and hedge fund at the Chicago Board of Trade offering advisory and retail services through PEAK6 Advisors and OptionsHouse brands.*

#### **Roles and Responsibilities**

Responsible for architecture, installation, and operation of state-of-the-art, innovative low-latency Cisco and Arista trading network connecting major U.S. financial exchanges (NYSE, ARCA, BATS, NASDAQ, CME, CBOE, CBSX, BX, PHLX.) Performed ongoing vendor and architecture reviews to ensure minimal Layer2 latencies. Specified, purchased, and operated low latency DWDM wide area connections between exchanges. Designed, specified and administered distributed server clusters using Hewlett-Packard ProLiant, VMware ESXi, Ubuntu Server and RedHat Enterprise Linux. Assisted in integration of low latency infrastructure with existing PEAK6 network and server infrastructure. Managed exchange collocation and extranet services, along with requisite agreements and associated documents. Liased with project management teams to prepare cost analyses, performance studies, and project plans for upper management review and approvals.

#### **Key Successes**

- Delivered initial NASDAQ exchange collocation deployment on time despite two month negative project impact at hire
- Developed an innovative distributed trading network architecture providing significant competitive advantages
- Singlehandedly built and deployed network, servers, and low latency DWDM links connecting all major financial exchanges in less than 8 months.

#### **Manager of Network Operations, Enhanced Telecommunications Corp.**

**March 2007 to November 2008**

*A Service Provider serving the southeastern Indiana region providing advanced voice, video, and data services over legacy copper and next generation FTTP transport technologies.*

#### **Roles and Responsibilities**

Provide supervision and technical leadership of 2 senior network engineers and 1 entry-level engineer. Architectural lead in large-scale network remediation projects for gigabit Internet backbone and 10 gigabit voice/video backbone using Cisco, Occam, and Calix solutions. Form and coordinate cross-functional project teams, specify equipment, maintenance, and service purchases. Lead comprehensive upgrades of legacy copper cabinet infrastructure to next generation GPON FTTP. Drive service assurance initiatives and process improvements. Responsible for network security architecture, firewall management, and IGP and EGP routing. Prepare management reports, board updates, cost analyses, and architectural documentation. Perform follow-ups, reviews, and implement development plans for staff as needed.

#### **Key Successes**

- Remediation and upgrade of Internet backbone to fully redundant Cisco 1 gigabit OSPF mesh
- Upgrade of SONET video transport to redundant Cisco, Occam, and Calix WDM 10 gigabit OSPF mesh
- Deployment of project and trouble ticket workflow management system and processes

**Manager of Network Engineering, CNG Financial, Inc.****April 2006 to September 2006**

*A consumer financial services company providing short-term loans and debit card services under the Check-‘n-Go and Axcess America brands.*

**Roles and Responsibilities**

Provide supervision and technical leadership of 2 senior Cisco/Juniper network engineers and 3 telecommunications engineers. Architectural lead in large-scale Cisco/Juniper network remediation projects for 1300+ store wide area network. Form and coordinate cross-functional project teams, specify equipment, maintenance, and carrier service purchases. Responsible for network security architecture, PCI and other audit compliance. Prepare management reports, cost analyses, and architectural documentation. Perform follow-ups, reviews, and implement development plans for staff as needed.

**Senior Networking Engineer, Deskey Associates****November 2002 to October 2004**

*A design, marketing, and branding firm. Major clients include Procter & Gamble, Georgia-Pacific, and Starbucks.*

**Roles and Responsibilities**

Manage all corporate Cisco network infrastructure for high-speed backbone, 10 terabyte SAN, metropolitan Ethernet Internet connection, VoIP/VoFR WAN, wireless data network and internal and external DNS servers. Maintain all PBX, voice mail, and other telephony infrastructure. Project lead for upgrading all intranet data infrastructure, including building distribution systems, to state-of-the-art Cisco fiber optic network.

**Founder and Chief Technology Officer, NetDestiny, Inc.****March 2000 to August 2002**

*A high-tech startup company manufacturing content networking and privacy software for Internet service providers*

**Roles and Responsibilities**

Inventor of NetDestiny's primary product, IntelliServ privacy firewall content selection software. Managed development engineering group and all IS, Facilities, and Security operations. Defined corporate mission and vision. Determined market engagement strategies for product development, marketing, and sales activities. Managed investor communications including preparation of annual reports. Responsible for all corporate dissolution planning and execution including legal and financial oversight.

**Senior Consulting Systems Engineer, Cisco Systems, Inc.****July 1997 to February 2000****Systems Engineer, Cisco Systems, Inc.****May 1995 to June 1997**

*The worldwide leader in networking equipment and technologies for Enterprise and Service Providers*

**Roles and Responsibilities**

Senior lead consulting engineer for major Service Provider customer design initiatives and product and technology solutions. Assisted in closure of major Service Provider opportunities with Tier 1 ISP, RBOC, CLEC and IXC customers. Generated solutions architecture collateral for use by sales force and Cisco business units. Provided Service Provider solutions-based strategic sales training in leader-led knowledge transfer initiatives, generation of training support collateral, and creation and structuring of major training initiatives across all Service Provider operations.

**Key Successes**

- Preferred go-to resource in critical opportunities and reversal of competitive successes; Reversed \$100M and \$50M opportunities from NorTel at @Home ISP and Williams Communications. Significant role in operational and divisional quarterly and annual revenue targets
- Provided network design expertise to all major Service Providers in the U.S.; responsible for extensive multimillion dollar RFP responses to Tier 1 Service Provider clients. Significant portions of the domestic U.S. Internet implemented with the designs and best practices developed during this period

**Senior Networking Consultant, General Magic****November 1993 to May 1995**

*Independent consulting in affiliation with Campbell-Marrich for General Magic, Inc.*

**Roles And Responsibilities**

Provided industry leading innovation in design and deployment of next generation multiprovider network supporting groundbreaking cloud services technology. Oversaw data center construction and network design initiatives, including complex multipartner extranet security.

**Senior Network Architect, Apple Computer, Inc.****July 1990 to June 1993**

*Worldwide manufacturer of revolutionary computers and consumer electronics*

**Roles and Responsibilities**

Lead engineer responsible for overall multiprotocol, multivendor network architecture at primary global data center in Napa, California. Managed planning and implementation of complex multivendor enterprise network solutions.

## Education, Certification, Professional Memberships

- Cisco Certified Data Center Architecture Specialist (exp. 2015), Cisco Unified Fabric Design (exp. 2015), Cisco Unified Computing Design (exp. 2015)
- Cisco Certified Internetwork Expert (#1829, currently inactive)
- Bachelor of Science, Computer Science and Bachelor of Science, Philosophy, Ball State University

## Technical Expertise Detail

### Networking and Telecommunications

- Next-generation Cisco data center technologies including UCS, Nexus 2000, 3000, 4000, 5000, 7000 and 9000, OTV, FabricPath, DCB, unified Ethernet and Fiber Channel transport, and converged VM-FEX and Nexus 1000v virtualized network and server switching and related technologies.
- Specialization in High Performance Computing (HPC) with emphasis on scalability, low latency, and state of the art technologies and vendors (Cisco, Arista, Juniper, HP, IBM, Voltaire, Solarflare, Mellanox, Chelsio, 29 West, Wombat)
- Best-in-class knowledge of TCP/IP network design and architecture, with particular emphasis on high-performance, low-latency routing protocol design and configuration for all known routing protocols including PIM and DVMRP multicast, VPN including PPTP, OpenVPN, SSL and IPsec with extensive OSPF and BGP architectural skills and experience
- Extensive network security architecture experience including hands-on firewall design and troubleshooting for ASA/PIX, IOS firewall, and Juniper Netscreen (ScreenOS). Solid knowledge of PCI and SEC audit compliance requirements and vulnerability assessment and testing. Also familiar with Palo Alto and Checkpoint firewalls.
- Extensive 10/100/1000/10G/100G Ethernet engineering for high performance trading, metropolitan LAN services, multi-gigabit 802.3ad link aggregation and 802.1q/ISL VLAN transport including VTP, MST, RST, PVST, RPVST.
- Wireless LAN (WLAN) network (802.11a/b/g/n/ac) installation and administration including Cisco Aironet/Airespace a. Deployment experience with 802.11a/ac/n including Cisco LWAPP and WLC infrastructure, along with 802.1x security. Familiar with 3G, WiMax, Canopy, Proxim, and other 900Mhz and 1.2/2.4/2.8/5 Ghz metro and regional wireless solutions
- Experienced with Juniper JunOS and NetScreen ScreenOS products, including SSL VPN gateways
- Experience with most major content networking, load balancing, and proxy technologies including Cisco WAAS and F5 BigIP LTM and GTM; familiar with Citrix Netscaler
- Expert level Cisco IOS (also substantial Nexus) enterprise and ISP routing and switching; CCIE #1829 (Inactive)
- Internet backbone design and architecture for 10,000+ router Service Provider networks using BGP4, OSPF and IS-IS. Extensive knowledge of metropolitan Ethernet service definition and differentiation for business and residential services, including FTTP, L2PT, Q-in-Q, QOS, 802.1p/q, RFC1483 xDSL, and PON (BPON/GPON) delivery infrastructure.
- Optical WAN design with hands-on installation and troubleshooting SONET and SDH standards and technologies, fiber optic multiplexer technologies and equipment including CWDM, DWDM, Cisco ONS, optical routing technology, and ROADM as well as Frame Relay, POS, and ATM
- Service Provider multiservice backbone design and architecture for VOIP and TDM voice, data, and video integration with diverse products from many vendors including Alcatel-Lucent, Occam, Calix, Cisco and Juniper
- Extensive data center and facilities engineering project management experience including RFP preparation and review, technical and project leadership, phased implementation planning, and actual facilities construction
- In-depth experience with inside and outside plant structured wiring technologies, including copper and fiber-optic building distribution infrastructure, EIA/TIA standards and specification, as well as HVAC and electrical power specifications (IEEE, ASME, and NFPA/NEC standards)
- Industry-leading presentation and documentation skills with expert-level Visio, PowerPoint, OmniGraffle, Illustrator CS, and MiniCAD employed in generating thousands of RFP's, lesson plans, executive presentations and marketing collateral.

### Linux/BSD/MacOS X Systems Administration and Development

- Over ten years Senior Unix systems administration for FreeBSD, Mac OS X, and Linux (RedHat/CentOS, Ubuntu)
- VMware virtualization technologies including vSphere, ESX/ESXi, Nexus 1000v and VM-FEX.
- Experienced DNS/BIND administrator, including delegation, load balancing, and security controls
- Extensive Unix scripting and programming in awk, sh, csh, and sed with substantial C and Perl.
- Accomplished Apple Macintosh desktop and server systems administrator
- Administration of assorted diverse and esoteric languages and platforms including Sendmail and VAX/VMS