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## TECHNOLOGY STRATEGY & ARCHITECTURE

Technologist with a passion for large-scale architectures. Dynamic, visionary, strategic planner, and leader with a strong background in business process and technology providing an ideal mix of management, analytical, and technical capabilities. In-depth understanding of the detailed aspects of solution design, development, deployment and operation. Expertise in both practical and theoretical aspects of network and systems architectures, with a focus on solutions that substantially improve stability, efficiency, and profitability.

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### AREAS of EXPERTISE & TECHNICAL SKILLS

Network & Systems Architecture  
Peering & Interconnection  
Network & Systems Automation  
Product & Standards Development  
Budgeting

Traffic Engineering & Capacity Planning  
Vendor Management  
Change & Project Management  
Network Monitoring/Management  
Consultative Selling

Technology Strategy  
Coaching & Mentoring  
VoIP  
Network Design  
Security

**Hardware:** Juniper, Cisco, Alcatel-Lucent, Brocade (Foundry), Extreme, Force10, Netscreen, PaloAlto, A10, F5,

**Systems Architecture and Administration:** email, web, NMS/EMS, and DNS systems • automation using Cfengine and Puppet • Solaris, Linux (Debian, RedHat), FreeBSD • familiarity with MySQL and PostgreSQL

**Systems Development:** Perl, Bourne, and Python scripting • CVS, SVN, Mercurial, Git

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### PROFESSIONAL EXPERIENCE & ACHIEVEMENTS

**Microsoft -- Colorado, USA**

**03/2014 - Present**

**Interconnection Strategist**

Responsible for creating and cultivating partnerships and strategic interconnection initiatives globally. Key priorities include improving customer experience by expanding our network footprint and seeking ways to optimize our existing peering and backbone infrastructure.

**Juniper Networks -- Colorado, USA**

**05/2012 - 08/2013**

**Systems (Sales) Engineer**

Led technical sales activities to grow new and existing opportunities. Delivered sales presentations as well as product and service roadmaps, conducted product demonstrations and training, installed product evaluations, and responded to RFP's and RFI's.

- Areas of focus included CGN, automation, BRAS/subscriber management, IPv6 planning and deployment, large-scale multi-tenant data centers, IPTV, and core IP/MPLS

**Infocrossing/Wipro -- Colorado, USA**

**07/2010 - 05/2012**

**Network Architect**

Tactical network planning, pre-/post-sales solution architecture and design, and operational escalations for a managed data center services provider and IT outsourcer.

- Developed backbone and data center architecture, major contributor to CTO Office network strategy
- Developed comprehensive IPv4 and IPv6 addressing plans, requested addresses, and implemented new management practices and policies
- Security design and implementation. Developed DDoS mitigation procedures, remote-triggered black-hole configuration, and traffic filtering guidelines.

**Trinet (IntelePeer) -- Colorado, USA**

03/2009 - 06/2010

**IP Engineer**

Tactical and strategic network planning, design, and daily operation of a carrier VoIP network and application services provider.

- Developed and deployed new backbone routing architecture which improved performance by 15% and reduced costs by 10%
- Developed and implemented comprehensive IPv4 addressing plan
- Created configuration standards, templates, and scripts to automate and standardize configurations for network devices: significantly reduced deployment time, increased stability, and greatly improved operability

**Yahoo! -- California, USA**

05/2007 - 02/2009

**Senior Network Engineer - Team Lead**

Hired as one of two team leads to unify multiple global network engineering groups under common policies and management: duties included skills assessment and professional development planning, coaching and mentoring, as well as project planning and maintenance staffing. Worked with peers, transit providers, and transport networks to implement and troubleshoot connectivity worldwide.

- Collaborated with Network Architecture on backbone routing (re-)design and standard naming convention
- Converted US and European backbone IGP from OSPF to IS-IS without service interruption
- Assisted in the unification of disparate worldwide backbone ASNs into one single global network, stretching from Singapore to Switzerland, while in service, with no downtime

**Alcatel-Lucent -- Wellington, NZ**

08/2006 - 05/2007

**Principal Technologist**

Lead Architect on complex, high-visibility, solution architecture and design projects for New Zealand's largest national network and telecommunications services provider.

- Collaborated with customer executives on interconnection strategy. Developed product definition, technical architecture and design, FCAPS specifications for OSS, and operational procedures
- Contributed to ongoing backbone MPLS and IGP re-architecture and design

**tw telecom -- Colorado, USA**

06/2005 - 07/2006

**Senior IP Operations Engineer - Team Lead**

The group was the final escalation point for all IP/MPLS-related products and services, as well as being responsible for vendor relations and management. Worked with IP Architecture and Engineering on design enhancements to improve network operability and standardization. Acted as one of two Senior Unix Administrators.

- Installed and configured stop-gap monitoring tools, improving responsiveness of the NOC, and beating the commercial solution by two-years
- Implemented Cfengine to automate administration of heterogeneous Unix systems and enforce standards
- Wrote change management procedures for non-notified changes and drove creation of a change review board

**Terremark -- Florida, USA**

01/2004 - 01/2005

**Senior Network Engineer**

Responsible for performance, tactical planning/architecture, design, and configuration of the network. Mentored junior engineers, performed traffic/flow analysis in support of peering activities. Ensured adherence to change management policies.

- Hitless migration of production network from OSPF to IS-IS
- Designed and implemented BGP confederations
- Product development and solution design for colocation customers

<b>Senior IP Engineer</b>	Fusiontel -- Florida, USA	09/2002 - 01/2004
<b>Network Engineer</b>	USA.net -- Colorado, USA	03/2001 - 05/2002
<b>Telecom Technician</b> (contract)	DirectFit -- Colorado, USA	10/2000 - 01/2001
<b>Network Technician</b> (contract)	TeleTech -- Colorado, USA	11/1999 - 09/2000
<b>United States Marine Corps Reserves -- Colorado, USA</b>		<b>01/1998 - 04/2002</b>
<b>Radio Operator</b>		

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#### EDUCATION & CERTIFICATIONS

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JNCIS-ENT, Juniper Networks Certified Internet Specialist - Enterprise  
AA, Physics, Miami Dade College, Miami, FL

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#### AFFILIATIONS

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- Vice-Chair, Colorado Chapter of the Internet Society (COISOC)
- Steering Committee Member, Rocky Mountain IPv6 Task Force (RMv6TF)
- Member, NewNOG/NANOG