

# terenbryson

IT Director, Sr. Network Engineer

## contact

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## languages

english

## programming

Python  
Bash Shell, PowerShell  
C++ Familiarity

## Network

OSPF, EIGRP, RIP, ISIS  
BGP, IPv6, VRF, STP  
MP-BGP, MPLS, VSS  
WAN Optimization  
Packet Tracing  
Security, IPS

## OS

HPUX, Solaris, BSD  
Windows Servers,  
Windows Clients, Linux

## Vendors

Cisco, Juniper, HP  
Brocade, F5

## Storage

NetApp, Equallogic

## Virtualization

VMWare

## Platforms

Catalyst, Nexus, SRX

## Management

Sarbanes-Oxley  
Financial Accounting  
Budgeting, Mentoring  
Contract Negotiation  
Team-building

## summary

**Over 20 years of professional experience as a network engineer**, 6 years of management experience, SOX analysis and compliance, project planning and implementation. Several years as a pre-sales engineer. Brings a pragmatic approach to IT. Proven ability to translate business goals into IT strategy, to communicate complex IT systems and theory to Clevel executives, and to deliver projects on-time and budget. Completed CCIE Routing and Switching written exam. Studying for lab and expect to be certified in 2013. Specialties: security analysis, network architecture and restructuring, network architecting with a business needs-driven approach, VMware implementation, Cisco Switching and Routing including 6500 series and VSS setup. Recent projects include NetApp implementation and several VMware implementation/upgrade projects including vSphere 5, Cisco UCS, Nexus 1000v. Strong in OSPF, MP-BGP, Layer-2, WAN, VPN.

## experience

2007–Current **ZETEC, INC.**

Snoqualmie, Washington

*IT Director*

Assumed management position over Zetec Information Technology department in all facilities world-wide when prior IT Manager left. Largely handed over server management responsibilities for all bare-metal servers to direct reports, however, retained ownership of the network, storage, and virtualization pieces at the same time as taking on traditional management duties including:

- Staff management, training, and mentoring
- Setting IT policy
- Management of Sarbanes-Oxley documentation and processes
- Budgeting and contract negotiations

This position remains challenging due to the overlapping duties between management and engineering, but has uniquely positioned me for a variety of future growth opportunities.

*Key accomplishments and initiatives:*

- Member of IT Policy board for parent company Roper Industries. This involves setting IT policy for all companies in the group, as well as negotiating larger contracts to take advantage of scale
- Implementation of Cisco UCS, NetApp, Nexus for Snoqualmie campus
- Conversion of over 75% of all servers to virtual
- IT project leader on major ERP system conversion from pure Oracle, with Oracle financials, to Tier-2 system (IFS) utilizing Oracle at the database layer
- Conversion of phone system to pure IP with Cisco Call Manager, Unity, IPCC and SIP trunks
- Network build-out for Shanghai, China factory
- Network restructuring for offices in Paris, France; Seoul, South Korea; and Quebec City, Quebec, Canada
- Negotiation of Microsoft Enterprise Agreement renewals and true-ups, as well as Cisco Smartnet and other large IT contracts
- Successful SOX, DoE, and DoD audits each year with no significant findings

2006–Current **ZETEC, INC.**

Snoqualmie, WA

*Sr. Network Engineer*

This position involved hands on with a variety of technologies and vendors, but was largely a network engineering role focused on Cisco routing, switching, and security technologies. Originally hired as Sr. Network Engineer, specifically to fix worldwide OSPF routing design for multi-national manufacturing company and finish migration from EIGRP. Took immediate ownership of all infrastructure including security, telco, routing and switching, and servers including HPUX, Sun Solaris OS, Windows, and Linux.

*Key Accomplishments and Initiatives:*

- Converted entire routing infrastructure from EIGRP/RIP/Static/OSPF to pure OSPF
- Complete design and buildout of IPv6 dual-stacked network infrastructure including total campus network from edge to client, external gateways and DMZ, email, web, and participated in World IPv6 Day as a validated network
- Implemented VMware virtualization technology utilizing iSCSI Equallogic SANs for storage. Began transitioning server infrastructure at Snoqualmie Campus to virtual
- Restructured and moved entire distribution/DMZ network to vendor-neutral facility in the Westin Building, Seattle. All world-wide WAN and Telco links for Zetec flow through here. This transition was therefore a major project with stakeholders on multiple continents. Security, external DNS, Web, Mail Gateways, etc., had to be moved in a minimally consequential way
- Implementation of VRF model for traffic isolation at layer-3. Utilized MP-BGP for redistribution of routes as needed. 1-to-1 mapping of VLAN to VRF, with the exception of management traffic which was left in the global table
- Move from provider-based IP model to Provider-Independent IP (PiP) space and BGP Multi-homing for redundancy and routing independence between facilities

2005-2006

**LANIER**

Bellevue, WA

*Sr. Network Engineer*

This position was a mix of pre-sales engineering and post-sales implementation for a newly started VAR business practice at an established company. Responsible for network design from initial specs through implementation, including VoIP infrastructure for 3Com and Avaya.

*Key accomplishments and initiatives:*

- Flown to Minnesota to design and implement failover network for Checkpoint Security System's alarm monitoring center. This was a large-scale build-out involving multi-layer Cisco Switches, fiber trunks, and complex routing rules
- Designed several successful multi-office VoIP networks involving coordination between vendors, telcos, and clients— all with stellar results

1997-2005 **FIRST AMERICAN RES**

Santa Ana, CA

*Sr. Technical Engineer*

Recruited for technical knowledge and fluidity in customer relations. Responsible for high-level, on-site network support for top-tier clients throughout a multi-state geographical area. Worked in ambiguous, high-pressure, ever-evolving settings constantly—with deadlines to have equipment and services operational.

*Key accomplishments and initiatives:*

- Assumed responsibility for helping our clients U.S. wide make the transition to Windows 2000 without adversely affecting operations or revenue
- Instrumental in design and development of several key industry products, including MetroScan, Realist, Realquest, Win2Data, Leads-to-Loans and more
- Designed and presented several corporate training programs to national audiences on network analysis, troubleshooting, security, and TCP/IP mechanics
- Performed security analyses for clients to determine readiness for software upgrades and/or new services
- Responsible for all pre and post-sale technical analysis, documentation, and implementation as well as sales presentations to a variety of principals—board members, presidents, IT staff

## education

2013–Current **Bachelor** of Science in Information Technology    University of Massachusetts at Lowell  
Minor in Business

2004–2006 **Bachelor** of Information Technology    University of Phoenix, Arizona  
Specialization in Networking

1991–Current **Various**    Ascolta, INE, CCBootCamp  
Classes and certifications in Cisco technologies including all classes and versions of CCNA, CCNP, MCSE since 1999. Individual classes in Sonicwall, Checkpoint, Juniper SRX, Cisco ASA., and most recently CCIE-level Troubleshooting. Have passed CCIE Written exam, but *not the lab*.

## awards

1987 **Academic Distinction Award**    Johns Hopkins Center for Talented Youth  
Awarded for placing in the 99th percentile of college-bound seniors in the College Board's Scholastic Aptitude Test (SAT) while in the 7th grade.

## associations

**professional:** IEEE, ARIN, IETF, ISACA, Editor Packequeue.net, Contributor PacketPushers.com

## publications

blog.packetqueue.net