

IT Infrastructure Architect

IT professional with over 15 years of experience in multiple roles, typically serving in a cross functional capacity. Excels in a dynamic environment with constant change. Prefers automation to manual repetition, and being a partner to the business instead of a simple services provider.

Work Experience

03/2011 - 02/2015 — **ViaSat Inc.** El Camino Real, Carlsbad California 92009 760-476-2200

03/2011 - 02/2015 — Senior Network Engineer

- Focus on data center networking supporting Satellite Service Provider back office and operational support systems, including:
 - Cisco Nexus 7000, 5000, 2000, 1000V.
 - Cisco Catalyst 2960, 3750.
 - Cisco ASA.
 - Cisco ACE.
 - Cisco ACS.
 - Juniper SA VPN Appliances.
 - Juniper MX Routers.
 - OSPF and MPLS internal network.
 - BGP Peering with providers and at internal MPLS network CE-PE boundary.
- Provide support and dissemination of knowledge to other engineers.
- Work with business owners on architecture, implementation and support of their applications, with a focus on network services.
- Work with other data center infrastructure groups toward the completion of projects our functional groups support.
- Provide knowledge transfer and augmentation to other infrastructure groups where own knowledge or experience surpasses that of the functional groups subject matter expertise.
 - Assist in the setup and maintenance of Red Hat Satellite.
 - Provide training on the use of Git, along with proposing workflows to encourage collaboration.
 - Provide training and escalation on scripting and programming with Python.
 - Evaluation of Splunk and ELK for log aggregation, building network specific queries and assisting in building queries to correlate network, systems, and application data.
 - Setup CentOS 7 VM templates for use in a vSphere environment, using cloud-init to customize the deployed virtual machines using the same data structures as when deploying in the future to OpenStack or AWS.
- Encourage the adoption of Infrastructure as Code and Agile Operations methods, procedures, and tools, across functional groups.
- Implement and maintain server infrastructure supporting network operations, including:
 - Red Hat Enterprise Linux 5 and 6 for server OS.
 - SaltStack for configuration management.
 - Git for version control of configuration management data.
 - Investigate use of SaltStack and ProxyMinion functionality to control configuration of network devices through same interface as server infrastructure.
- Utilize configuration management for network supporting server infrastructure to automate the deployment of proxy white listing.

07/2010 - 01/2011 — **Consumers Energy** One Energy Plaza Drive, Jackson Michigan 49201 517-788-0550

07/2010 - 01/2011 — AMI Network Engineer

- Review and assess vendor equipment pertaining to Smart Grid Enablement such as:
 - Home Area Networking (HAN)
 - Advanced Metering Infrastructure (AMI)
- Evaluate wireless communications utilizing IEEE 802.15.4 (ZigBee) between AMI meters and HAN equipment such as:

- Appliances
- Home energy displays
- Environmental controls
- Evaluate wireless communications of AMI meters in a mesh, along with transport of data back to head end.
- Evaluate functionality of vendor head end for their AMI solution.
- Manage VMware environment of approximately 200 virtual machines, containing internal servers and vendor environments.
- Enabled the Cisco Nexus 1000V virtual switch in a portion of the lab environment for demonstration purposes, with goal of enabling throughout the VMware infrastructure to provide greater network level control.
- Evaluate SIEM products for viability in managing projected data from the smart grid infrastructure.

02/2009 - 07/2010 — **Netarx, LLC** (Acquired by Logicalis Group in July, 2011)

(Netarx acquired Analysts International VAR business unit in August 2009)

02/2009 - 07/2010 — Network Engineer

- On-demand work for customers, including:
 - Temporary staff augmentation
 - Break-fix resolution
- Project based work for customers, including:
 - Some pre-sales engineering
 - Production of implementation plans and detailed design documents
 - Execution of implementation plans
- Perform assessments on customer infrastructure
 - Assess current state manually and with automated tools
 - Generate report for customer
 - Review report with customer staff
- Peer review of customer deliverables.
- Areas of expertise:
 - Network Management
 - Routing
 - Switching
 - Data Center Technologies
 - Security
 - Wireless
 - UNIX (HP-UX, Solaris)
 - Linux

03/2005 - 02/2009 — **Liquid Web Inc.** 4210 S Creyts Rd, Lansing Michigan 48917 800-580-4985

08/2008 - 02/2009 — System Administrator

- Technical support provided to web hosting customers, such as:
 - Hosting control panels (cPanel, Plesk)
 - Web servers (Apache, IIS)
 - Email services
 - Host firewalls (IPTables, Windows Firewall)

03/2005 - 08/2008 — Network Engineer

- Design, implement and maintain globally accessible web hosting network infrastructure.
 - Monitor and rebalanced outbound traffic flow over multiple carriers.
 - Manage IP allocations for use, and acquisitions through ARIN
 - Implement and maintain distributed authentication for network devices, utilizing:
 - * Shrubbery Networks tac_plus daemon

DARREL RAY CLUTE, III

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- * PAM
- * OpenLDAP
- * MIT Kerberos
- Implement and maintain distributed syslog infrastructure.
- Implement and maintain distributed SNMP trap and notification system.
- Implement and maintain automation of switch provisioning, network provisioning, and interface VLAN association.
- Implement and maintain denial of service detection based on netflow exports.
- Design and maintain product development around network based services such as hardware firewalls and load balancers.
- Provide escalation support for suspected network related issues.
- Provide customer support on network based services.
- Provide training and documentation to engineering and support staff.

03/2003 - 03/2005 — **Lansing State Journal** 120 E Lenawee St, Lansing Michigan 48919 517-377-1000

03/2003 - 03/2005 — Information Technology Coordinator

- Project coordination for UNIX server infrastructure and core networking.
- Maintain server infrastructure on various platforms, such as:
 - Solaris
 - Linux
 - BSD
 - Windows
 - Mac OS 9 and 10
- Maintain core network infrastructure for both the LAN and WAN.
- Provide assistance to sister papers in the Michigan Synergy.
- Work with Gannett Corporate IT.
- Provide end user support to a mixed desktop environment.

09/2002 - 09/2006 — **Computer Vision Networks** (Dissolved)

09/2002 - 09/2006 — Partner and Chief Executive Officer

- Drafted and submitted original Articles of Incorporation.
- Drafted corporate by-laws adopted by shareholders.
- Responsible for coordinating and conducting all shareholder and board meetings.
- Maintained all financial records and corporate budgeting.
- Responsible for accounts payable and accounts receivable.
- Drafted, reviewed and approved all legal documents.
- Responsible for drafting all work authorizations and statements of work for customer projects.
- Performed warm sales calls in both an account manager and pre-sales engineer role.
- Reviewed and responded to all requests for proposal and quote.
- Maintained all vendor partnerships.

06/2002 - 03/2003 — **JAS Networks** 64 E Michigan Ave, Battle Creek Michigan 49017 269-288-5500

06/2002 - 03/2003 — Technical Support Specialist

- Provide technical support to customers both residential and commercial.
- Assist with management of servers, and network equipment.
- Assisted in the implementation and maintenance of OSPF and BGP routing architecture.
- Assisted in the maintenance of the ATM LANE environment which fed the Paradyne DSLAMs.
- Maintain database for trouble tickets both internal and with Ameritech.

06/2001 - 03/2002 — **Albion College** 611 East Porter, Albion, Michigan 49224 517-629-1000

06/2001 - 03/2002 — Network Assistant

- Provided assistance to the Network and System Administrators with various tasks.

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Professional Certifications

January 2, 2012 - Current	Red Hat Certified Engineer, RHCE
January 2, 2012 - Current	Red Hat Certified System Administrator, RHCSA
March 16, 2009 - March 16, 2012	Cisco Certified Network Associate, CCNA
March 31, 2005 - Current	Novell Certified Linux Professional
January 29, 2005 - January 29, 2010	Linux Professional Institute Certified Level 1, LPIC-1
July 16, 2003 - July 16, 2006	Cisco Certified Network Professional, CCNP
July 3, 2003 - July 16, 2006	Cisco Certified Design Professional, CCDP
May 20, 2002 - July 16, 2006	Cisco Certified Design Associate, CCDA
January 18, 2002 - July 16, 2006	Cisco Certified Network Associate, CCNA

Education

- 2000 - 2002 — **Calhoun Area Technology Center** 475 E Roosevelt Ave, Battle Creek Michigan 49017 269-968-2271
Computer Networking — Cisco Network Academy Alumnus
- 1998 - 2002 — **Albion Senior High School** 225 Watson St, Albion Michigan 49224 517-629-9166
General Education — High School Diploma