**Professional**

**Georgia Tech Research Institute – Atlanta, GA. - Student Researcher - 12/2012 – 10/2014**

**While completing my degree at Georgia Tech I worked for two departments on campus:**

* The VIP eStadium Network Research Team
* Programming GNURadio (Software Defined Radio) CSMA/CA based whitespace(550Mhz) back-haul link, for encoded IP transport (via stunnel)
* MySQL Server administration, transactions from a lightweight System On Chip(SOC) Linux systems which collected wireless network sensor data from TI-MSP430 vibration and acoustic sensors
* C Programming multithreaded client for packetizing serial stream data and inserting into MySQL tables
* Ubuntu Server 12 LTS Administrator

**(GAMMON) Project**

* 50 server centOS (5.0) based remote systems running the perfSonar remote administration tool set (Dell PowerEdge units)
* SSH based polling and configuration synchronization via perl
* Perfsonar package code contributors (git)
* Traffic shaping via Netflows, perfSonar, nftables, Nagios, RRDTool and Smoke ping

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| **EIS Consultation Group - Berkeley, CA. - Network Consultant** | **3/2010 – 7/2012** |

Lead Network Consultant on in staff EIS acted as a consulting firm offering IT administration and outsourced services to numerous small to medium sized businesses throughout the greater bay area.

* Evaluate existing network infrastructure, develop project plans, implement timelines create a deplayment schedule and implment deployment of new technologies.
* Offer support both onsite and remote for existing clients and implemented projects
* Microsoft Windows Server (2000, 2003, 2008 R2) Administration
* Hyper-V Virtualized Datacenter Administration
* Microsoftas Exchange (2000, 2003, 2007, 2010) Engineer
* ActiveDirectory Administration and migration and integration engineer
* VMWare Vsphere(ESXi 5.0) Virtualization Migrations
* Microsoft Small Business Server Administration (2000, 2003, 2008) (aka Microsoft Server Essentials)
* Office 365 migrations (both to and from)
* Google Corporate Services migration and administration
* Cisco VPN services authenticated to an Microsoft IAS Server via RADIUS implementor
* Implement Cisco Aironet based wireless LAN with Microsoft AD based certificate based authentication.
* Asterisk Linux based system VOIP corporate office solution administrator.
* HP Procurve Stacked Switch configuration and management 3800, 3500
* Linux RHEL (5 – 6 ) with AD integration, implementation and administration.
* Cisco based Firewall (ASA) and Switch / Router Network administrator.
* BackupExec based LTO Tape rotation and disaster recovery backup solutions architect
* IronMountain LTO Tape Rotation for offsite disaster recovery

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| **Robert Half Technologies - Oakland, CA. - Network Consultant** | **7/2007 – 1/2009** |

A Large consultation firm , many fortune 1000 companies and medium to large size networks. I worked for numerous clients while working through RHT.

* Architect and implement Cisco ACE for SIP based VOIP Load balancing and access control solution
* Implement Cisco ASA and PIX Appliance security architecture and configuration for several clients
* Cisco OSPF internal office routing system implementations for multisite clients
* Cisco 2xxx, 3xxx Switches, Cisco 26xx, 35xx, 65xx router systems, Cisco ASA Firewall appliance
* Cisco Aironet Wireless Infrastructure
* Cisco IPS/IDS (4235) Intrusion Detection System
* Cisco MARS intergration with Cisco IPS Sensor Solition system
* Microsoft Active Directory and Exchange 2003, 2007 based medium size office network environments
* APC Symmetra based UPS Systems
* Backupexec Based Disaster Recovery and backup colocation mirroring
* LDAP Linux to Microsoft AD Integration, for authentication and centralized logging
* Administrate r Cisco based MPLS internal franchise network management, 500 end point franchise PCI client network utilized MPLS backbone for encrypted financial transaction tracking and remote software update deployments
* IT Project lead engineer on development of plan and implementation for PCI Level 1 and SOX reporting compliance. Compliance was reached in 1 year for 500 franchise corporate client
* EMC and IBM Clarrion NAS and SAN based Disaster recovery Systems
* IBM Bladecenter based VMWare ESX Virtual machine migration with disaster recovery implementation
* Dell Poweredge, HP Proliant, and custom whitebox systems
* BackupExec, CA ArcServe, MS Backup, rsync / tar linux based backups
* Citrix Server based remote terminal services
* Cisco based PCI compliant TACACS implementations, and change control logging Intrusion detection and access control
* Microsoft Sharepoint ASP .NET WebDAV Based Application Management, (Intranet application)

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| **Wavelength DataCom - Sunnyvale, CA. - Senior Networks Systems Engineer** | **7/2004 - 6/2007** |

A small Consultation firm offering outsourced IT support to a diverse client environemnt throughout the greater Silivon Vally area

* Cisco Unity Callmanager as well as switch and router implementation and administration
* Cisco Catalyst 2900, 3000 series switch configuration and maintenance
* Cisco 6500 series routers, 2000 series router configuration and administration
* Microsoft Windows Server (2000, 2003) administration
* Microsoft Exchange (2003, 2000) administration
* Near line LTO tape, disaster recovery systems
* CA ArcServer Backup Software for Disaster recovery offisite backup solutions
* Symantec BackupExec configurations for offsite disaster recovery and adminitration
* NetApp NAS and SAN appliances
* Dell Poweredge Servers, HP Proliant Rack based Server systems
* Dell PowerVault Storage Systems
* APC Symmetra based UPS Systems
* Cisco PIX Based Firewall Systems

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| **Winsonic Holdings, Ltd. - Los Angeles, CA. - Network Engineer** | **5/2001 — 6/2004** |

C-LEC - Co-Location, Media and High speed content streaming applications.

* Linux LAMP based web systems
* 3com (HP) SuperStack Procurve Switch line
* rrdtool, cacti and Cisco netflows data monitoring systems
* NOC operations center, email and SMS uptime monitoring systems
* Checkpoint Firewall Appliances (FW-1), ( NOKIA, Crossbeam, Bivio)
* Cisco AS5xxx Series firewall programming
* Cisco PIX Based Firewall System
* Micosoft Windows 2000 Server AD and Exchange based office server systems
* Citrix Based Client Terminal Services
* Cisco Based OSPF, iBGP internal network infrastructure
* Cisco 12000GSR, 7600, 6500 router configuration

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| **Jet Propulsion Labs - Pasadena, CA. - Systems Engineer** | **1/1996 – 5/2001** |

A division of NASA and Caltech Institute.

* Desktop and Server repair and mentenance
* Windows Domain based networks
* Linux RedHat Server and Desktop
* HPUX and Solaris UltraSPARC mail and specialized applications systems
* Cisco 29xx, 26xx Switch and router configuration

**EDUCATION**

**Georgia Institute of Technology - Atlanta, GA.**

**August 2012 - Fall 2014**

* GPA 3.4 – w/High Honors
* Computer Science (Information Systems / Theory)
* VIP eStadium Network Research Team – High Density Wireless Networks
* perfSonar (GAMMON) – iPaT – Research assistant - Georgia school systems network statistics gathering

**Academic Based Projects:**

* Python 2 based multi-threaded command line Bittorrent Client
* Java based Secondary indexing Implementation for HBase (partial implementation)
* Android Geospacially based Lost and Found objects application
* TI-MSP430 based acoustic and 3 axis accelerometer data gathering and stream encoding
* SDR GnuRadio Based Whitespace Backhaul link for streaming of sampling data to centralized SQL database and PHP Based interactive web system.
* C Based MPLS reimplementation for linux based systems

**CERTIFICATIONS**

Cisco Certified Network Assiciate (Routing/Switching) (2001) **●** Microsoft Certified Systems Engineer (2001) **●** Novell InterNetworks Engineer (1997)

**TECHNOLOGIES AND EQUIPMENT**

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| * Cisco Cayalyst 2900, 3500, 3600 Switch es * Cisco TACACS Server centralized authentication and change control * Cisco 2500, 2600, 3200, 6500 Router line (IOS) * Cisco IOS 12.2 , 12.1 * Cisco VPN Concentrator * Cisco PIX and ASA Firewall Appliances * HP 3800 Stacked Switches * VMWare vSphere (ESXi 5.0) * Dell PowerEdge Server Line * Dell PowerVault SC Based FibreChannel SAN * Dell PowerVault SAN Storage solutions (MD, NX ) * EMC Celerra Storage solution * NetApp iSCSI based storage solution * Sonicwall Firewall Appliances * Citrix Xen App Server * IBM BladeCenter Solutions * Firefox (all versions) * Linux MySQL, postgreSQL | * Microsoft Windows Server 2000, 2003, 2008 R2, 2012 * Microsoft Exchange 2000, 2003, 2007 * Microsoft Office Suite 2012, 2000, 2003 * Microsot IAS Server * Microsoft Sharepoint Server * Microsoft SQL Server (2000, 2008 R2, 2012) * Microsoft Internet Explorer 9,10,11 * RHEL (5.x — 6.x ) Redhat Enterprise Linux Systems * Checkpoint FW-1 * NOKIO IPSO, Bivio, CrossBeam Checkpoint appliances * Ethereal, Wireshark, Snort, AirCrackNG, Network diagnostics tools * IronMountain Offisite Disaster Recovery * Zigbee Wireless Sensor Networks, (Network of Things) |

**PROTOCOLS**

IP, IPX, VTP, STP, 802.1Q , ARP, OSPF, EIGRP, HDLC, DS(1,3), Frame Relay, Pagp / LACP (Port Aggregation), SNMP, RIP, NAT/PAT, ACLs, IPSEC, FibreChannel, ZigBee, LDAP

**PROGRAMMING LANGUAGES**

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| C and C++ | Java | Bash, C Shell |
| Python (2) | PHP | HTML |
| Hbase | Hadoop 2 | LaTex |
| Lua | MySQL | PowerShell |