

MICHAEL VIRNOCHE

TECHNICAL CONSULTANT

6112 COBBLESTONE DRIVE #J11, CICERO, NY, 13039
MICHAEL.VIRNOCHE@GMAIL.COM | MOBILE 315.530.2027

SUMMARY

Analytical, logical, innovative, dependable and objective technical specialist qualified and ready to work immediately, remotely or onsite; available for relocation positions.

PROFESSIONAL EXPERIENCE

August 2008 - Present

Technical Consultant @ Virnoche Enterprises, Tempe, Arizona

Interface between clients and hardware vendors, responsible for complete cycle from hardware and software based diagnosis of problems through completion of repairs. Maintain client privacy and confidence with encrypted and secured backups of their private information. Design and implement complete hardware solutions to meet client needs for computers, networks and servers. Offer and maintain warranty services.

Complete hardware rebuilds of desktop and servers. Designed and implemented a massive RAID system (100Tb) for a client utilizing a mix of hardware based RAID accelerator cards, RAID60 and ZFS to offer a very fast and stable storage system. Designed and implemented a complete 10Gb/s network infrastructure on a client's home to allow a HPC cluster to be installed the house. Redesigned websites and created custom e-commerce websites for clients. Several virtualization projects utilizing latest offerings from VMWare, OpenCloud, Hyper-V and Xen.

Designed and created a high-availability VMWare ESX cluster utilizing a SAN and NFS for storage locations and provisioning of the RAID arrays. Managed running VM's through vCenter and utilized Cisco Nexus 1000V on ESX for internal networking. Whole ESX cluster was used as a test bed for development and scalability research by upcoming client projects.

Applications: Adobe CS5 Masters Collection, Adobe CS6 Masters Collection, Final Cut Pro 7, Final Cut Pro X, Apple Compressor, Apple Motion, Encase, FTK, Microsoft Office 2007, 2011 & 2013, Microsoft Office for Mac 2008 & 2012, Autodesk AutoCAD, Microsoft Access, SQL, VMWare ESX, VMWare vMotion, VMWare vCenter, Microsoft Hyper-V

Hardware: Desktops, Laptops, Workstations, Servers, Network Equipment, VOIP, TelePresence, RAID, NAS, DAS, SAN

Operating Systems: Microsoft Windows XP, Vista, 7, 8, 8.1, Mac OS X 10.0-10.8, Linux, UNIX

Languages: C, C++, C#, J#, Java, Asp.net, Python, Perl, CSS, HTML5, ColdFusion, SQL

June 2013 – October 2013

Remote Support Specialist @ Rescucom Corp., Syracuse, New York

Accountable for around the clock uptime of globally accessible servers managing hundreds of simultaneous remote control sessions for customers. Managed all in-house computer, network and server hardware and software upgrades. Constantly working with customers to make sure that all their questions and problems were resolved. Worked remotely to fix over 98% of calls. Managed shipping and tracking of computers and hardware from customers to corporate headquarters where I fixed hands on those problems that couldn't be remotely solved.

Implemented a real-time customer tracking software solution to keep our customers computers safe. Wrote the source code to track all customer computers from being used on more than one account. Custom designed and branded all remote control software, backup software and tracking software. Was responsible for all corporate documentation overhauls from training manuals through datacenter breakdowns and designs for all new hardware installations. Have been a constant contributor online for the support forums of the software that we utilize, sharing all the advancements that I have personally created and helping the companies further along their own development making the software better for all.

Applications: ScreenConnect, Visual Studio 2012, Microsoft Office 2010 & 2013, iWork '09, Adobe Creative Suite 6 Masters Collection

Hardware: Dell Optiplex, Dell Latitude, Dell Precision, HP ProLiant, EMC Storage, Cisco Catalyst, Callerid.com, VOIP, HP Procurve, HP Desktops and Laptops, Sony Desktop and Laptops, ASUS Desktops and Laptops, ACER Desktops and Laptops, Apple Mac Pro, Apple iMac, Apple MacBook, Apple MacBook Pro, iPhone, iPad, iPod, Windows Mobile Phone, Blackberry, Android phones, Android Tablets

Operating Systems: Microsoft Server 2003, Microsoft Server 2008, Microsoft Server 2008 R2, Microsoft Server 2012, Microsoft Windows XP, Microsoft Windows Vista, Microsoft Windows 7, Microsoft Windows 8, Apple OS X 10.1, 10.2, 10.3, 10.4, 10.5, 10.6, 10.7, 10.8, 10.9, Ubuntu 12.04LTS, Ubuntu 12.10, Ubuntu 9.04 LTS, Red Hat Enterprise Linux, UNIX, Asterik Linux

Languages: Visual Fox Pro 9, C#, ASP.Net, C++, Java

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February 2013 – June 2013

Deputy Technical Director @ The Vineyard Church, Syracuse, New York

Accountable for the entire network, computer hardware, and general infrastructure required for all day to day operations. Maintain MacBook Pro, Mac Pro, Dell Latitude, Dell Precision, Lenovo ThinkPad, Dell PowerEdge Servers, Cisco routers, Cisco switches, Cisco ASA and Linux firewalls across both local and remote sites. Train remote site personnel across four distinct locations across the nation. Maintain multiple stable workstation images. Began designs for iOS and Android application for streaming services and handling communication and event information.

Implemented real-time video feed for service distribution leveraging fiber and satellite connections. Both generated hardware purchase acquisition lists and purchased equipment up to \$75,000.00. Overhauled all video production systems resulting in a 600% productivity increase in overall performance. Created and distributed a master image to all support systems which allows for a significant decrease in maintenance time as well as established a standard system baseline.

Applications: Final Cut Pro 7, Final Cut Pro X, Apple Compressor 3, Apple Compressor 4, Apple Motion 4, Apple Motion 5, Apple iWork 09, Adobe After Effects CS6, Adobe Premiere Pro CS6, Adobe SpeedGrade CS6, Adobe Photoshop CS6, BlackMagic Studio, Microsoft Office 2012, Smaart

Hardware: Apple MacBook, Apple MacBook Pro, Apple Mac Pro, Apple iMac, Dell Latitude, Dell Precision, Dell OptiPlex, Dell PowerEdge, Cisco routers, Cisco switches, Cisco PIX, Cisco ASA5505, Lenovo ThinkPad, Yamaha LS9-32, Yamaha M7CL, Shure ULXD wireless systems

Operating Systems: Mac OS X 10.6, 10.7, 10.8, Microsoft Server 2008 r2, 2012, Ubuntu 12.04 LTS

Languages: AppleScript, Bash, C, C++, Python, Java, Cocoa, Objective-C

January 2010 - April 2011

Client Systems Administrator @ University of Advancing Technology, Tempe, Arizona

Maintained both production and beta build images for campus wide systems as well as degree specific systems (game development, robotics and embedded systems programming, network security, forensics, video production and graphic design). Accountable for all desktop, laptop and workstation hardware replacements and configurations. Main liaison between university and hardware companies.

Implemented Dell Kace to simplify compliance and imaging of 550 desktops, 75 laptops and 37 servers. Implemented Apple Remote Desktop to manage and support 50 MacBook Pro laptops that were located all around the country. Designed and built Windows 7 Enterprise gold images, Mac OS X gold images and configured remote installation capabilities allowing systems to be imaged from any geographic location. Held open forums with professors and students allowing everyone to inform me what they wanted which was then approved and deployed. Designed and implemented a complete VDI (Virtual Desktop Infrastructure) utilizing the latest generation Dell PowerEdge servers, 10Gb/s Cisco networking hardware and VMWare ESX server with vMotion and vDirector. Assisted in the build and configuration of a campus wide OpenCloud infrastructure that allowed students to learn programming and scripting of virtual data centers and practice with scalability in their software.

Applications: Symantec Ghost Solution Suite, Windows Deployment Service, Dell Kace, Windows Update Service, Netinstaller, Cisco Unified Communications Manager, Cisco CallManager, Cisco CallManager Express, Microsoft Office 2007, Microsoft Office 2008 for Mac, Microsoft Office 2011, Microsoft Office 2012 for Mac, Apple iWork '09, Adobe CS5 Masters Collection, Adobe CS6 Masters Collection, Final Cut Pro 7, Apple DVD Studio, Apple Soundtrack Pro, Autodesk Maya, Autodesk AutoCAD, Autodesk Revit, Autodesk 3ds Max, Encase, FTK, Citrix Server, Citrix XenApp, Citrix Virtualization

Hardware: Lenovo ThinkPad, Dell Latitude, Dell Precision, Dell PowerEdge, HP Proliant G5, Apple xServe, HP Workstation, Apple MacBook Pro, Apple MacBook Air, Apple Mac Pro, Cisco Catalyst Switches, Cisco Routers, Cisco ASA, Cisco PIX

Operating Systems: Microsoft Windows Server 2008, 2008 R2, 2012, Microsoft Windows XP Professional, 7 Professional, 7 Enterprise, Microsoft Exchange Server 2007 & 2010, Microsoft Communication Server, Apple Mac OS X 10.5, 10.6, 10.7, Ubuntu 10.04LTS, Debian, CentOS, Arch, Fedora

Languages: Powershell 2, vbscript, applescript, bash, python, C, C++, C#, Java, Asp.net

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EDUCATION

University of Advancing Technology - Tempe, Arizona; Graduated July 2014

Bachelors of Science in Information Assurance

Emphasis on security, forensics, covert communication methodologies, virtualization and high-availability

University of Advancing Technology - Tempe, Arizona; Graduated July 2014

Bachelors of Science in Robotics & Embedded Systems

Emphasis on parallel processing, cluster computing, HPC, virtualization, computer vision, and autonomous systems

PROJECTS

2010 Parallel Processing Computing Cluster

Team lead for design, setup, configuration and testing of a multi-server computing cluster for the sole purpose of being used to assist students in furthering parallel processing programming. Designed around the Dell PowerEdge 2650 Server, Cisco Catalyst Gigabit Switches, Intel Infiniband Networking and a combination of SAN & DAS configurations. Externally accessible VPN for remote queue access and project submission, failover networking and load-balancing routers as well as segregated networking with both hardware and software to keep maintenance, storage and processing separate to stop packet collision on the networks.

Applications: MPI

Hardware: Dell PowerEdge 2650, Cisco Catalyst Switches, Cisco ASA, Dell PowerEdge Storage, Intel Infiniband, SAN, NAS

Operating Systems: Microsoft Windows Server 2008 R2, Rock OS

Languages: C, C++, Bash, Java, Python, CSS, HTML, SQL

2009 - 2011 Autonomous Linked Learning Independent Search and Rescue Vehicle with Onboard Navigation (ALLISON)

Team lead for design, setup, configuration and testing of a fully autonomous, scalable and secure search and rescue project utilizing both ground based vehicles as well as aerial vehicles. Designed around 1/10 scale R/C ground vehicle from Traxxas as well as 1/8 scale aerial helicopters this project was designed to enable as many vehicles to be dropped onto the network and instantly scale and expand the search area. Vehicles used custom designed and fabricated boards running a mix of Real-time Operating Systems (RTOS) as well as embedded Linux operating systems. They communicated on a fully secured and proprietary long range wireless network with redundant backup networks. Vehicles used a combination of sensors ranging from simple IR and Lidar for object avoidance, GPS for mapping and tracking of locations up to and including thermal imaging cameras and stereoscopic cameras for recognition of images as well as tracking thermal objects. This entire project was controlled from custom written software on a laptop that accessed the secure networks and could read real-time information from the sensors and video feeds as well as remotely control and override the AI on the vehicles for manual control if needed. All information was packetized with custom written software to allow real-time or as close to real-time processing and control as the vehicles were capable of speeds in excess of 40mph.

Applications: Eagle PCB, Autodesk Suite, Solidworks

Hardware: Custom PCBs, Zigbee wireless networking, Custom 802.11 networking hardware, High-gain Networking Antennas and Tranceivers, Traxxas Slash, Arduino, Thermal Cameras, Stereoscopic cameras, IR, Lidar, Custom Intel motherboards, Servos, ESC

Operating Systems: Microsoft XP Professional, CentOS, Ubuntu, Fedora, Microsoft Windows Server 2003, SQL Server

Languages: C, C++, Python, Basic, Spin, Java, C#, J#, Asp.net, Arduino

2010 Biometric Feedback Security System

Co-designed software that tracked biometrics such as type rate and style which could be used to correctly identify a person's identity just by typing on a keyboard over 80% of the time. Software tracked pressure used during keystrokes, patters and time between key presses which could be used to identify users. Software also tied into words use tracking whether the person would use one words over another in certain situations thus helping tracking identity.

Applications: Python, Eclipse

Hardware: Lenovo ThinkPad

Operating Systems: Ubuntu,

Arch Languages: Python, C

CERTIFICATIONS

Maintain - IBM Certified Mainframe Programmer

Pursuing - A+, Network+, Security+, CCNA, CCVP, CCIE, CISSP, CEH