

EDUCATION

I received my Bachelor's of Science in Mathematics in June of 2000 from Portland State University in Portland, Oregon. I have continued my studies at New Mexico State University working towards my masters in mathematics. While studying at NMSU, I received the opportunity to help support OIF II. I have held and am still eligible to receive a secret clearance. This clearance was previously final before leaving my previous employer. As such, I am currently able to transfer over my previous clearance should it be necessary.

Job experience

Owner-President / R3D Solutions / Scappoose, OR /July 2006 to Present

Formed R3D Solutions to begin designing technologies to increase soldier safety while increasing reliability of military systems.

- Developed accounting and bookkeeping systems
- Forming of company and maintain compliance with local, state, and federal regulations
- Defined business plan, and responsible for execution
- Procurement of all materials necessary for research
- Negotiations with other companies
- Price evaluation and costing for grants and contracts
- Development of IT backbone to support company
- Writing up of and submission of patents, copyrights, and trademarks
- Marketing

Technical Lead / New Mexico State University: Physical Science Laboratory / Las Cruces, NM /October 2005 to July 2005

Lead retrofit effort of Electronic Warfare System for United States Army.

- management of up to 30 project personnel (electrical engineers, technicians, project managers, field service representatives)
- produce status reports for direct supervisor
- showed wide range of both technical and leadership skills
- responsible for giving recommendations on equipment

Additionally, I was tasked with helping procure equipment for project and for Field Service Representatives overseas

OCONUS Supervisor for the Warlock-ICE system / New Mexico State University: Physical Science Laboratory / Las Cruces, NM /2004 to October 2005

This job involved a most varied number of tasks as I led a small group of FSRs to deploy a new UUNS system into theater. This system was developed in a short time, and a lot of the documentation, training, and distribution of the system had to be done in theater. My responsibilities included:

- Liaison between my company and the US Marine Corp.
 - Collect and report feedback from the users of the system in the field
 - Collect and report problems associated with the system
 - Present the capabilities and limitations of the systems to the command
 - Collect and report systems current performance, and new targets for the system
 - Present current directions of R&D to theater commanders
 - Helped facilitated understandings of contracts, negotiate disputes over contracts, and provided information on who to contact if specific limitations needed review to facilitate changing theater requirements
 - Learned how to use standard crypto-gear including Kick-90 and CYZ-10 in order to report back how other systems function in theater, and how the Marine Corp. would like our system to function. (experience on currently deployed crypto gear)
- In charge of maintenance in theater
 - Develop the logistics to bring systems back to TQ for maintenance
 - Maintain current information pertaining to inventory of replacement parts
 - Troubleshooting of the system at the SRU level and board level
 - Operate systems test sets and general purpose test equipment in field maintenance
 - Determined need for out of theater maintenance and obtained these services
 - Worked as a liaison for communications units in theater for field maintenance and troubleshooting
- Led teaching of classes on the system in theater
 - Designed curriculum based on needs of the US Marine Corp
 - Taught classes from user level to SRU maintenance level
 - Trained personally more than 500 marines

- Received training and helped maintain additional members of the Warlock family
- Advised command on how the ICE system would interact with other systems

Software Engineer and PC consultant / New Mexico State University:
Physical Science Laboratory / Las Cruces, NM /2002 to 2004

This job involved testing and support to programmers in transitioning to a common Windows operating system, backing up the systems using Veritas Backup Exec, and a myriad of other tasks including developing designs for new software applications.

- Functional testing of software produced for the IMETS (Integrated METeorological System) project, a software package set on ABCS 6.4 and ABCS 7.0 systems
 - Test all software fixes produced by programmers prior to release
 - Recreate high priority software problems and assist in their resolution as received from the field
- Consultant for maintaining PC's on network
 - Maintain backups of critical PC's to allow for rapid disaster recovery
 - Resolve hardware/software problems in-house prior to requesting vendor support
 - Coordinate with vendors as external support is needed
- Develop testing and maintenance scripts as appropriate
 - Developed an application to allow for quick and errorless entry of information into a database.
- Technical writing of internal testing document
- Help contribute to the documentation of the project for external use
- Set-up equipment, and maintained streams of meteorological information from TVSAT (Tactical VSAT) to IMETS system
 - This project included troubleshooting the entire test-bed (around 15 to 20 systems) to maintain functionality and data flow. This included having a complete understanding of how to set-up and maintain the TVSAT (Tactical Very Small Aperture Tactical Satellite), how to troubleshoot the associated IP routers, troubleshooting of a VCH terminal (including checking queues for overloading, etc.). Also, I was in charge of troubleshooting of our IP network (including hardware, software, drivers, connectivity, etc)

Special Projects

- Analyze old Gauntelet VPN software, and determine reliable replacements (replacements included several Cisco routers with hardware VPN capability for transferring software from development

site at WSMR to integration site in Washington State.)

- Analyzing of target software for new IMETS server release based on ABCS 7.0. Analysis included comparing the different candidates against the environmental standards of the US military, and the performance standards required to run our software.
- Development of prototype for RIA for use of collecting and maintaining a collection of environmental thresholds. This project was a web based application with the main server residing with AFWA. (design of web based application for deployment on an WAN\IP network)
- Development of use cases, and base object set for web-based RIA tool.
- Maintained and developed developers network (internal IP network used for sharing source files for programming project) including maintaining main server, setting up of domains as appropriate, maintaining backups of main system, analysis of system and recommendation of upgrades to prevent data loss including installation of UPS systems, etc. This systems gateway was a Cisco router. My contact with this router was requesting through SI international (IT for base) for appropriate holes in firewall to be made, and configuring Sun systems, and windows systems to use those holes as appropriate. (Integration of Solaris based and windows based systems to work with Cisco router over an IP network)

Laser Technologist III / Micron Laser Technology / Hillsboro, OR /1999 to 2001

This job required the quick assimilation of varied, highly technical information in order to maintain and operate several different types of industrial cutting lasers, including lasers in the infrared, green, and UV bands.

- Optical alignment and supervising of the machines
- Integration of new encoders into existing laser system
- Internal tracking system development
- HR system development
- Building of system support PC's
- Skiving, blind micro-via work, and contouring of dielectric, and also for production of printed circuit boards; some boards having in excess of 30 layers.
- Building and maintaining PCs on production floor and in offices

Special Projects

- Development of DB application to hold information from different jobs
- Analysis of different options to obtain broadband connectivity to site including peagusus IP satellite options (research of receive only with dial in return lines, and also send and receive option. Analysis

included delay time, bandwidth of connection, overall perceived performance, routing of IP addresses, associated cost, etc.), ISDN options, cable modem options, current DSL options, T1 options, etc.

Computer Technician / Affordable Technologies / Beaverton, OR / 1997 to 1998

System-level troubleshooting including working with statically sensitive hardware in a static-free workstation, troubleshooting device drivers under Windows 98, and rebuilding systems under warranty.

- Troubleshooting of computer systems including:
 - Factory-installed hardware
 - Factory-installed software

Software Support Representative / Stream International / Beaverton, OR /1996-1997

This job involved working on the telephones to assess issues for customers. I troubleshot a variety of different products for Microsoft Corp. with one of the highest customer satisfaction ratings of any technician on our floor. Furthermore, I received a variety of certifications including beta certification on Windows 97, (released as windows 98). A partial listing follows:

- Provide Technical Support for a series of software packages for Microsoft Corp. (Certified by Microsoft in all products supported)
 - Microsoft Windows 95 Operating System
 - Internet Explorer 2.x, 3.x, and 4.x
 - Personal Web Server
 - Microsoft Windows 95 Plus Pack

Certifications

- Amateur Radio Operator's Technician No-Code class License (effect. date Sept. 11, 2002)
- EPA 608 Universal Technician (Certification to handle refrigerant)
- EPA 609 Certification (Certification to handle small amounts of refrigerant for automotive use)
- R410 Certification (Trained on newer refrigerants)
- IAQ Certification