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PROFESSIONAL SUMMARY

Unix Network Engineer (Sun Solaris™) specializing in network security and open source applications.
Software Developer (CGI, DBI, GUI), Visual C++ (Visual Studio 6), GCC, XLC, and Borland C.
Visual Basic Programmer (GUI & Access DBI), LabView™ Programmer (large and small scale SCADA).
Script Programmer working with Perl, Python, and Shell on Unix and Windows platforms.
Data Abstractionist working with ASN.1 and other abstract data representations.
Database Designer and Administrator using Oracle™ 8i, PostgreSQL, and MS Access™.
Electronics Engineering Technician with a background in troubleshooting and digital circuit design.
Software Tester and Reliability Analyst published in the field of Software Reliability Engineering.

EMPLOYMENT HISTORY

- Sept. 2004** **Adjunct Faculty (Part Time), ITT Technical Institute, Albuquerque Campus**
Current
- Responsible for lecture, grading, and proctoring of undergraduate IT and ISS classes.
 - Responsible for delivering ACICS accredited curriculum to classes of no more than 20 students.
 - Courses include: Database Design, Windows 2000 Server™ Administration, and Computer Security.
- March 2000** **Computer Scientist and Consultant, SPRE, Inc. Albuquerque, NM**
Current
- Developed and implemented several automated testbeds for a variety of integrated environments.
 - Developed and delivered custom on-site training for software development and testing using CMMI.
 - Performed reliability analysis on advanced integrated computer security products including:
 Biometric verification, Smart Card certificate authentication, and commercial firewall products.
 - Authored Test Plans and Final Analysis Reports for Department of Defense / Government contracts.
 - Developed and maintain SPRE's office network (Windows 2003™ domain with Active Directory™).
- July 1999** **Owner, Southwest Technical Services, Albuquerque, NM**
Current
- Developed and maintained several custom corporate web sites and networks.
 - Performance analysis of complex integrated software packages for Sun Solaris platforms, Oracle 8i database servers, custom domain-specific compilers, and custom network applications.
 - Developed and delivered several custom on-site computer training courses.
- June 1997** **Senior Electronics Technician, Center for High Technology Materials (CHTM)**
July 1999 **University of New Mexico, Albuquerque, NM**
- Responsible for the safe and efficient operation of the CHTM Electrical Shop.
 - Designed several custom software applications using a variety of Development Tools.
 - Provided support for the Center's HP-UX network and Microsoft NT 4.0 network.
 - Repaired and maintained both laboratory and clean room equipment.
- Dec. 1995** **Electronics Technician (I and II), Ford Utility Center**
June 1997 **University of New Mexico, Albuquerque, NM**
- Responsible for general maintenance of the University's utility and time keeping systems.
 - Designed several custom software applications for data processing using: Microsoft Access, Visual Basic, C/C++, Qbasic, Alpha 4, DEC Fortran 77 and DCL scripts.
 - Interfaced directly with engineers on campus-wide projects.
- April 1993** **Gas Turbine Electronics Technician, USS Reid FFG-30, San Diego, CA**
March 1995
- Responsible for ship-wide fuel and lubricant testing in the ship's Lubricant and Fuel Laboratory.
 - Designed several custom software applications for data processing of test results in C.
 - Maintained both the ship's propulsion and power generation systems.
- May 1991** **Electronics Technician, Naval Communications Unit, Cutler, ME**
Sept. 1992
- Responsible for the safe and efficient operation of the station's Electronic Calibration Laboratory.
 - Designed several custom software interface programs for electronic test equipment.
 - Designed custom database applications for tracking calibrations in D-Base III.

EDUCATION

College Summary

August 2003 BSCS with honors from the College of Santa Fe, Albuquerque Campus.

Military Training Summary, United States Navy

February 1990 **Electronics Technician (Class "A" School)** 720 Classroom Hours

June 1990 Service School Command (SSC), Orlando, FL

June 1990 **Electronics Technician Advanced Electronics School** 960 Classroom Hours

January 1991 Service School Command (SSC), Great Lakes, IL

February 1991 **Precision Measurement Electrical (Class "C" School)** 240 Classroom Hours

May 1991 Naval Unit, Lowry Air Force Base, Denver, CO

May 1991 **Precision Measurement Microwave (Class "C" School)** 160 Classroom Hours

June 1991 Naval Unit, Lowry Air Force Base, Denver, CO

Sept. 1992 **Gas Turbine Electronics Technician (Class "A" School)** 1080 Classroom Hours

March 1993 Service School Command (SSC), Great Lakes, IL

CERTIFICATIONS AND PROFESSIONAL MEMBERSHIPS

March 2004 Registered Microsoft Partner and Solution Provider, ID#:637604

August 2004 Registered member of the Sun Microsystems iForce™ partner program, ID# 4005543

March 2003 Completed "Software Reliability Engineering", form John D. Musa's On-line training.

August 2002 Active Member IEEE and IEEE Computer Society, Albuquerque Section (region six)

May 1998 Completed National Instruments LabView™ programming (Beginner and Advanced) at CHTM

April 1993 Completed "Hot Plant" training for co-generation plant operation and management (USN)

Jan 1993 Completed TQL (Total Quality Management) training (USN Non-Commissioned Officers Training)

PUBLICATIONS AND PRESENTATIONS

- Co-Authored "Managing Reliability of High Integrity Software Systems" at the 15th Annual International Symposium on Software Reliability Engineering (ISSRE 2004), Saint-Malo, France. November 2-5, 2004

- Co-Authored and Presented "Correctness by Construction - Software Development Using Formal Methods" training at the National Security Agency, Research and Development Department, Ft. Meade, Maryland. June 21-25, 2004.

- Co-Authored and Presented "Software Reliability Analysis of Smart Card Certificate Management" at the National Security Agency, Ft. Meade, Maryland. March 16, 2004.

- Authored and Presented "Software Development Methods" at the College of Santa Fe, Albuquerque. June 11, 2003.

- Presented "Automated Reliability Testing" with J. C. Widmaier at the 13th International Symposium on Software Reliability Engineering (ISSRE 2002), Annapolis, MD. November 12-15, 2002

- Co-Authored and Presented "Reliability Testing of COTS Security-Based Software Applications." with Dr. William W. Everett at the National Security Agency, Ft. Meade, Maryland. January 10, 2002.

- Authored and Presented "Outlook For Office Use: An Introduction" at United States Department of Agriculture USDA, Office of Rural Development. Albuquerque NM. December 18, 2001

- Authored and Presented "Ethernet Technologies: An Introduction" At the UOP, Albuquerque. August 14, 2001.

- Authored and Presented "Programming Methodologies: Procedural Driven vs. True Event Driven" at Los Alamos National Labs, Los Alamos, NM. April 19, 2001.

- Co-Author, DoD Publication "IMPACT – Operational Impact Estimation Toolkit", Jan. 15, 2001, Doc ID: B0115-01 v3

- Acknowledged in the *Review of Scientific Instruments*, February 2000, for custom prototype design and fabrication associated with the "Phase-sensitive multi-channel detection system" experiment performed at UNM, Dept. of Chemical and Nuclear Engineering.