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CURRENT POSITION

Vermont Department of Labor: Systems Engineer III February 2010 to Present

Direct authority and responsibility for all information and systems at the Vermont Department of Labor. Maintained all operational aspects of IBM VSE ESA mainframe. Developed new interfaces and programs for IBM VSE/ESA, Windows and Linux based systems based upon user and management requests.

FLINT INFORMATION TECHNOLOGY SYSTEMS OF VERMONT CONTRACTING EXPERIENCES

Champlain College: Computer Science Professor September 2008 to June 2009

Designed, directed and taught a senior level college course (SWE 315). This instruction was designed around the text Advanced Programming in the Unix Environment. SWE-315 is considered a required course in the software engineering discipline of the College.

Recycle North: Information Architect April to September 2008

Research, development and implementation of open sourced based Vermont statewide multi-site virtual private network. Activities included design and documentation package as well as extensive testing and installation.

Robert Half: Linux Systems Administrator January to April 2008

Remote operation, maintenance, upgrade and enhancement of several Centos Linux systems. Tasks include backup system development, split-brain DNS management, and web site support, email system operation. Additional duties included development of a Payment Card Industry compliant Linux system design.

Code 4 Design: Business Development Consultant December to March 2007

Participation in a virtual web enterprise. Activities included development of sales database, policy and contract documentation, customer support, proposal development, trade show development, setup and operation. C4D product porting to IBM zLinux via the Linux Community Development system.

FLINT ELECTRONICS CORPORATION OF VIRGINIA CONTRACTING EXPERIENCES

Radio Free Asia: Lead Information System Consultant April to September 2006

- Developed Ubuntu / Xen based Web Site Prototype evaluation tool
- Wrote RFA Web 2.0 System Test and Evaluation and RFA Web 2.0 Transition Plan
- Supervised development team and trained system operations personnel
- Installed Ubuntu-based system backup using mondo mindi

Library of Congress: Information System Certifier January to September 2006

Author of a NIST 800-37 style Information Assurance Security Certification and Accreditation of the AIX Oracle based Financial Hosting Environment (via SPS Corporation)

Housing and Urban Development: Lead Developer September 2004 to September 2005

- Lead team that completed a NIST 800-37 type Information Assurance Security Certification and Accreditation of all HUD database and network systems.
- Developed database, spreadsheet and text processing tools and programs. (via Innotion Corporation)

- DoD Command Control Survivability Program: Representative** September 2003 to September 2004
 Acted on behalf of US DoD liaison to the Mainframe / Server Integrated project team. Duties included development and implementation of an Infrastructure for Linux on the new z900 Mainframes being installed as part of the project. Continue to advocate Linux on DoD Mainframe (via General Dynamics)
- Center for Disease Control and Prevention: System Certifier** September 2002 to September 2003
 Completed NIST modeled Certification and Accreditation project of all database and network facilities at CDC. Included systematic on-site inspection and reporting of CDC sites. (via SRA)
- Radio Free Europe – Radio Liberty/ RFA: Security Certifier** September to December 2002
 Developed, authored negotiated and facilitated Mutual Information System Security Test and Evaluation (MISST&E) system evaluation process (via Booz Allen Hamilton)
- Office Of Cuban Broadcasting Radio Marti: Security Analyst** January to September 2002
 • Authored Information Assurance Risk Assessment document.
 • Performed “Bug Hunt” type system survey using open source tools
- RGII Technologies, Inc., a Computer Horizons Company: Certifier** September to September 2001
 • **Department of Commerce, Commerce Administrative Management Service GISRA Risk Assessment**
 • **Department of Interior, Minerals Management Service (DOI MMS). FISCAM Risk Assessment for the ABACIS Financial Disbursement database system.**
 • **Health and Human Services SAMHSA NAIACAP System Security Policy and Plan.**
 • **National Naval Medical Information Center DITSCAP based Certification and Accreditation**
- Office Of The Surgeon General, TRICARE Medical Activity (TMA), Theater Medical Information Program (TMIP): Security Analyst** January to September 2001
 Security support in the development of next generation Oracle (DCOM) based Medical Treatment Facility Information System (Northrop Grumman Information Systems).
- Pentagon Information Technology Agency: System Security Analyst** September 1998 to September 2001
 • **ITA-DC** Performed security risk assessment of Enterprise Computer Facility, including implementation of Configuration Management system with MS and DB2 SQL & HTML based Software and Hardware diagrams designed for DB2 UDB implementation.
 • **ITA-SR**, Developed, edited and published SIPRNET Certification and Accreditation Documents. Platforms included IBM X, P, and Z series, including zVM, and AIX.
 • **ITA-AE** Definition of certification and Accreditation security policies related to Mail And NT Architecture (MANTA).
 • **Army Digital Advanced Warfighter Experiment (DAWE)**, Fort Hood, Texas oversight and liaison service in promulgation of network security risk assessment. Evaluated security assessments at Pentagon and Field Commands (Telos Corp).
- Army Research Laboratory: Network Systems Administrator** September 1997 to September 1998
Battlefield Environment Directorate (ARL/BED) Planning, installation implementation, security certification & administration of mixed UNIX, NT, Windows Local Area Network installation with VTC / High-resolution subsystem. Analysis, design, installation, accreditation and security certification of extensive SGI IRIS & ONIX, Sun Solaris, HPUNIX OSF, Axil, AIXL, Xterm DGUX, X.11, NT systems within heterogeneous ATM operational, tactical and research inter-networks, Adelphi, Maryland. (SSA Corp).
- Chief Of Naval Operations Pentagon (CNO): Network Administrator** September 1995 to September 1997
 Microsoft NT / UNIX Public and Secret Local Area Network (SIPRNET) Conversion. Design implement and

install TCP/IP networks, systems and services for Chief of Naval Operations (N-0) and Director Space and Electronic Warfare office (N-6). (Teksouth Corporation).

January 1993 to October 1995

**American Geophysical Union, American Astronomical Society,
American Physical Society:** Internet Installer

Provided technical consulting services including both hardware and software for an Ethernet based information system. Systems integrated included VAX 3100, SUN SPARC, PC AT 386 and 486 Computers. Integrated AGU into the NASA Science INTERNET communications network.

September 1992 to September 1993

International Monetary Fund: Network Consultant

Supervised design testing and installation of 178.4 Mbs. (DS-3) optical fiber link. Oversaw interconnection to voice and data circuits presented at T-1 level. Principal investigator of high-speed base-band open wire Local Area Network Interface to existing telephone and data systems. Developed Network Management system, Base-band LAN, Initial Untwisted Pair (10baseT) network, Optical T-4 network. Graphics Department network. **World Bank** UNIX based X-25 and Localtalk installation. Telecom Study - Kampala Uganda.

RELATED WORK EXPERIENCE

GEORGETOWN UNIVERSITY MEDICAL CENTER (May 1983 to September 1993)
 Department of Communication, Basic Science
 Video Engineer: 1978-1983 Washington, D.C.20007 3900 Reservoir Rd., NW
 Washington, D.C.20007
 Oversaw technical management of all technical audio and video aspects of the hospital, the medical school and the dental school.
 Responsible for two stationary color video studios, one mobile studio, four monochrome studios, one sound studio, and numerous E.N.G. style television recording systems

FRAZIER, GROSS & CLAY (May 1978 to April 1983)
 Broadcast Facility Appraiser 5028 Wisconsin Ave., NW
 Washington, D.C. 20016
 Engaged in preparation of broadcast systems proposals for new facilities and on site appraisal of existing facilities. Responsibilities included maintenance of technical quotation source library, and computer operations. Some of the stations appraised include, KMPH TV Visalia, California; WUTV TV Buffalo, New York; KDAL TV Duluth Minnesota; Mutual Broadcasting System, Alexandria, Virginia; WTOP AM Washington, D.C.; WANN AM Annapolis, Maryland.

CARL T JONES ASSOCIATES (November 1977 to April 1978)
 Broadcast Consultant 2990 Telestar Court,
 Merrifield, Virginia 22042
 Consulted in broadcast engineering research and assisted in operation of broadcast radio and television stations. Duties included assisting in the adjustment of the directional antenna system at CHUM AM, Toronto, Canada; WKBW AM Buffalo, New York; WQXR AM New York, New York.

(December 1976 to November 1977)

EDUCATION

Certification IBM Mainframe Linux Stonesoft Firewall Certification
 BS Business Administration, Windham College Putney, Vermont

ACHIEVEMENTS, AWARDS, AFFILIATIONS

US Patent 4,821,307 **Recent Publications:**
 Image Splitter for two way image apparatus IEEE, ITCA, SBE, Radio World, NAB
Linux User Group Organizer **Conference Presenter**
 Washington DC North East Linux Symposium: Edubuntu
 Yorktown, Virginia Edubuntu Initial Design Conference London 2004
 Montpelier, Burlington and Barre Vermont Ubuntu Sub Zero Development Meeting 2005

REFERENCES

Personal and professional references are available upon request.