



FREDERICK JAMES DENNY

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Objective: To use my experience in the fields of Electrical Engineering, Networking & Systems Administration in order to deliver full-performance and cost-effective solutions for Laboratory and Development environments.

EDUCATION / CERTIFICATIONS

Bachelor of Science in Engineering Technology,
Concentration in Electrical Engineering Technology
[Old Dominion University](http://www.odu.edu) - Norfolk, Virginia
August 1984 - May 1990

Engineer in Training (EIT) (Virginia - 1990)
Certified NetWare Engineer (CNE-4) (August 1996)
Certified NetWare Administrator (CNA-4) (April 1996)
Microsoft Certified Product Specialist (August 1997)
Cisco CCNA (in progress EDC Sept 2004)

PROFESSIONAL EXPERIENCE

Lockheed Martin Aeronautical Systems - Marietta, GA (LM-AERO) **12/97 - Present**
Senior Engineering Technologist/Network Systems Engineer

Systems Integration Laboratory (SIL) ~ C130 and C5 Flight Simulators ~ Dept. 6H4M

- Management of a Sun Fire 280R Server Cluster and associated NIS/NFS environment (1 TB).
- Configuration and Management of RAID Storage utilizing [VERITAS Volume Manager](#). (Sun T3 Arrays)
- File System Backup and Restoration utilizing [VERITAS NetBackup for Datacenters](#) (StorageTek L180)
- Configuration/Management of [3Com Switches](#), [Cisco Switches](#) and routers for autonomous labs.
- Installation/Management of Microsoft Windows 2000/3 Application & Terminals Servers
- Continual rollout and configuration of Sun Workstations (Solaris 2.5.1.thru Solaris 9)
- Support of [SGI ONYX2](#) and O2 computers for flight simulator 3D [Visualization Systems](#).
- Installation/Support of [Samba](#) servers for internal & external lab file-share access ([Redhat](#) & [Solaris](#)).
- Forecasting and procurement of a yearly IT Hardware budget of \$600K.
- Implementation of a web-based [Inventory](#) & Lab [Scheduling Systems](#) using a [MySQL](#) back-ends.
- Apache and Microsoft IIS Web Server Administration (ASP, Perl-CGI, PHP).
- Procurement of yearly Hardware and Software support and license renewals. .
- Implementation of a local Virus and OS update system for Microsoft Windows Workstations and Servers.
- Network Monitoring using [SolarWinds](#) Network Management Suite & various Open Source software.
- Coordination tasks when implementing Extranet, VPN, and Point-to-Point connections in the labs.

Software Engineering Process Department (SEPD) 6B22 **1997- 2001**

- IT Support for efforts to obtain [CMM SEI](#) Level 3/4 and ISO 9001 Certification.
- Design and implementation of a [Citrix/NCD/Window NT Terminal Server](#) providing Windows NT applications to NCD-based thin clients and other computer platforms.
- Overall design, configuration, and support of a thirteen-seat training classroom (client/server/network gear/audio/projection/satellite receivers for [NTU/PBS](#) education and training telecourses)
- System support, administration, and configuration of a Digital UNIX Alpha 2100 server providing 24/7 uptime for a C-130J Flight Test Oracle Database (FTCCS Oracle 7.3.X).
- Support of sixty users in a UNIX and NT multi-Domain Engineering environment.
- Installation and ongoing Administration of Digital UNIX mail server (SENDMAIL, POP3, SMTP)
- Routine OS installations and upgrades of: Compaq Tru64 UNIX, Sun Solaris, SGI Irix, Redhat Linux, Windows NT Server, Workstation, and Windows NT Terminal Server.
- Development and teaching UNIX environment and shell programming classes to company personnel.
- VMS administration of two Digital 4000/200 VAX/VMS systems and related clients.
- Performed scripted in-place and "across the wire" tape backup routines to DLT tape devices.
- Installation of server application software (Cayenne's Teamwork, [Oracle](#), [PCMS/PVCS](#), [Interleaf](#), [RTM](#), [Matlab](#), and [Rational APEX](#))

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- Field support for remote and traveling executive users. (Laptops, Mail, SecureID cards, NetMeeting)
- Network installation and support of the Fiber Optic Wave Division Multiplexing ([FOBWDM™](#)) system.
- Configuration of RAID Arrays using Adaptec, Mylex, IBM ServerRAID hardware and software.
- Travel to remote sites to set up Networks and computing appliances for demos and expos.
- Software installation of NCSA Httpd/Apache, Microsoft IIS 4, Netscape Fasttrack web servers.

Systems Engineer - CDI Marine - M&T Company *a division of CDI Corporation*

301 Queen Street, Portsmouth, VA 23704

10/96 – 11/97

- Management of a fifty-user/four-server [Novell](#) 4.x network using IPX/SPX, LAT, and TCP/IP protocols.
- Maintain and Develop a Postscript text processing system based on PERL and system scripts (SPARCstation 2)
- Member of [CDI Corporation](#)'s Information Technology Advisory Council (ITAC). This group collaborates on issues related to our corporate-wide enterprise network (Frame Relay).
- Overall support of PC clones, Sun Workstations, VAX 4000 workstations and Linux based PC platforms using DEC DNI, IPX/SPX, TCP/IP, NetBEUI and NFS networking protocols.
- Provide network connectivity, technical support, and administration for The M&T Company's Virginia Beach branch office (*now in Portsmouth, VA*). Network topology includes [Frame Relay](#) (via [ISDN](#)) to the CDI Corporate WAN, remote PPP sites, and a connection to a local Internet service [provider](#).
- Provide support for AutoCAD and Interleaf publishing workgroups including associated printers, plotters and software.
- Support of an [Apache](#) web server and a Netscape Proxy server for remote and local work sites.
- Installation and configuration of PC, Sun workstation and VAX mainframe network computing hardware.
- Code authoring/maintenance tasks in Perl, [HTML](#)/SGML, UNIX shell and VAX DCL scripts.
- [Authored](#) numerous Interactive Electronic Technical Manuals (IETM's) for Automatic Test Equipment.
- Perform both manual and automated tape backups of company workstations and servers.

Electrical Engineer - Hybrid Systems Engineering GS-855-12

01/91 – 06/96

[Naval Aviation Depot](#) - Naval Air Station Norfolk, Virginia (*Base now closed via [BRAC](#)*)

- Developed, debugged and maintained avionics computerized Automatic Test Equipment (ATE) software and hardware for the U.S. Navy's fleet-wide A-6 and F-14 community.
- Utilized cross platform protocols, multiple network computer hardware and a Novell 3.12 printing network to accomplish assigned tasks.
- Lead Cognizant Engineer for the Sparrow Missile Test Set (SPTS), the Loader Verifier Test Set (LVTS) and software support for the F-14 AWG-15F Weapons Control Panel.
- Designed, procured and built an interoffice peer-to-peer PC LAN for our engineering & logistics groups.
- Software development tasks involved source code authoring, debugging, updating and distributing using a variety of platforms (HP1000, PC, Sun, and VAX/VMS) and media formats.
- Routine responsibilities included project budgeting, system hardware prototyping, contract writing, project milestone monitoring, providing logistic engineering support, software configuration management, drawing reviews, user manual corrections/updates as well as compiling parts provisioning list to support new fleet equipment.
- Performed cost-benefit and return-on-investment analysis on proposed engineering changes and new system support projects.
- Many efforts involved devising porting schemes for different computer platforms to facilitate diagnostics and firmware upgrades on unique systems.
- Common maintenance actions involved engineering investigation on malfunctioning F-14 and A-6 avionics assemblies.
- Participated in the field testing of new avionics support hardware and related firmware.

Chief Engineer – College CO-OP

08/89 – 05/90

WODU Radio - Old Dominion University - Norfolk, VA

- Purchased, installed, and maintained studio equipment in an AM broadcast environment.
- Head-of-station engineering committee and served as chief supervisor of all technical matters within the station.
- Submitted quarterly reports concerning my duties as Chief Engineer, which included every aspect of the job, such as expansion proposals, purchasing needs, and training of station personnel.
- Maintained five carrier current transmitters providing AM coverage on the college campus.

ENGINEERING RESOURCES USED

Operating Systems: Working experience in [BSD UNIX](#), [Compaq/Digital UNIX](#), [DOS](#), HP1000 RTE-4, Intel RMX, [IBM AIX](#), SGI [Irix](#), [MacOS](#) 7-10.2 environments, Microsoft Windows 3.11/98/ME/NT/2000/XP/2003, [Novell](#) 3.12 - 4.1, [VAX/VMS](#), [SunOS/Solaris](#), and most popular [Linux distributions](#).

Hardware Used: [DEC](#) (Alpha 2100-4/275), [Sun](#) (LX-Enterprise 280R), [SGI](#) (Indigo-ONYX2), IBM Netfinity (5500-7000) servers, Cisco Routers, [Supermicro SuperServers](#), PC clones, Cisco/3Com/DEC Switches and Hubs, DEC Bridges, Tape drives (8 mm, DLT, [LTO](#), Mammoth, QIC, TK series & reel tape), [Network printers](#), Network & external modems (V.32-xDSL modems), [Fluke LANmeter](#), rack hardware and numerous NIC's (AUI/Twisted-Pair/Coax/Multi & Single Mode Fiber).

Programming Languages Used: Programming experience in Assembly, ATLAS, BASIC, C/C++, FORTRAN, PASCAL, Perl, PHP, HTML, and *Makefile* script languages.

Engineering Hardware Used: Extensive knowledge of Intel, Motorola, & [Sparc](#) architectures in workstations and embedded systems. Experience with various Oscilloscopes, Multi-meters, Microprocessor simulators/emulators, 680X0, 80X86, Z-80 series microprocessors, Programmable Logic Controllers, PROM programmers, IEEE 488 based Instrument controllers and most common laboratory equipment. Worked with the following military ATE platforms: [CASS](#), CAT-IIID, HTS, SPTS, LVTS, GRAD/GACT, MUPS, UPS, Harris PDS and [MIL-STD-1553](#) data bus systems.

CONTINUING ENGINEERING EDUCATION

Solaris 8 TCP/IP Network Administration: July 2001, [Sun Education Services Atlanta, Georgia](#)

Solaris 8 System Administrator II: June 2001, [Sun Education Services Atlanta, Georgia](#)

OO Programming Using C++: Nov. 2000, [Georgia Tech. College of Computing - Continuing Education](#)

The C Programming Language: Oct. 2000, [Georgia Tech. College of Computing - Continuing Education](#)

ORACLE: Backup Techniques: 1999 Lockheed Martin Training, Marietta, GA

NOVELL Administration & Engineering Education: 1996, [AmeriData](#), Norfolk, Virginia

CASS ATLAS Programmers Class: 1995, [Lockheed-Martin Corporation](#), Orlando, Florida

PC Design for Embedded Applications: 1995, [Annabooks University](#), San Diego, California

LASAR 6 Programming Course: 1995, Naval Air Warfare Center, Lakehurst, New Jersey

NAVAL Contract Officer Rep. Course: 1994, Naval Supply System Command, Norfolk, Virginia

Radar Operation & Design Fund.: 1993, The George Washington University

ATLAS Programming: 1992, [LCTI Inc.](#), Gaithersburg, Maryland

Microwave Test Fixture Design: 1992, Adam Microwave Consulting, Inc.

References available.