

Todd T. Fries

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Objective

My ambition is to apply my experience to support free software solutions (primarily UNIX and IPv6) through my business, Free Daemon Consulting, LLC.

Skills

Through development for and experimentation with various free software projects on the Internet, OpenBSD and Linux in particular, I have developed a respect for and interest in UNIX, and spend a considerable amount of personal time working to further the development of free software.

Router/Switch Experience AscendMAX (ISDN router), Cisco router/switch experience, CaymenDSL bridge+router, SpeedStream DSL bridge+router, DLink 802.11b Access Point

**Operating Systems
(and knowledge of)** strong knowledge of OpenBSD.
good knowledge of Linux, dated knowledge of Solaris, OS/2, and AIX, some knowledge of HP-UX, IRIX, Next Step, and MacOS / OSX

Networking UNIX - IPv6, firewalls, IPSEC (isakmpd), WCCP, routing, Sendmail, SSH, NFS, DNS, HTTP, administration, Samba, Majordomo, Inn, various other UNIX experience, OS/2, DOS, Macintosh (AppleTalk over Ethernet)

Programming Languages C, Java, HTML, Perl, m4, make, C++, L^AT_EX 2_ε

Database Experience Oracle, MySQL, PostgreSQL, Berkeley DB

Work Experience

01-2003 – current **Free Daemon Consulting**

UNIX/Network Consultant

Supporting free software solutions using UNIX;
<http://FreeDaemonConsulting.com>

Major activities have included:

- replaced FreeBSD with OpenBSD for all systems running an ISP
- implemented anti spam/virus using MailScanner + spamassassin + vthrottle + sendmail (tweaked various queueing mechanisms for performance)
- deployed a VPN intranet over dsl using OpenBSD
- deployed several Asterisk (VOIP) installations
- coded sip-notify support for an Asterisk customer
- remotely manage several customer colos
- use perl to enhance managability of colos
- wrote and use custom perl + postgresql application for invoice/time tracking (available upon request)

01-2003 – current **Free Daemon Consulting** *Colocation Web Hosting Machine*
owner/administrator; runs OpenBSD;
<http://FreeDaemonHosting.com>

04-2000 – 11-2002 **Monte R. Lee & Co.** *UNIX/Network Analyst*
Linux environment
- Installed Linux as software driving ISP's in the
midwest at 6 different locations
- Setup and maintained an OpenBSD company server
for SMTP, HTTP, DNS, firewall, NAT, DHCP, Samba,
POP3, relay popauth for Sendmail

10-1998 – 06-2000 **Illinois Central
College** *instructor/part time faculty*
cs249 - Intro to UNIX (basic commands)
cs251 - UNIX Administration (install and maintenance)

11-1997 – 04-2000 **Bradford & Galt
Consulting Services** **Caterpillar Inc.**
UNIX Administrator, AIX environment
administered software rollouts for 1.5 years on 500-600
machines every 6-10 weeks; through shell scripting and
the use of rsync and parallel rolls, time of implemen-
tation was cut from 4-5 days to 6 hours (used KSH)
Perl and Java were used to a lesser degree
created a graphical Java database access application to
save time and not have to use manual SQL commands

03-1997 – 10-1997 **Heuris** *Systems Administrator* maintaining Linux and Solaris
machines, dns, http, Perl scripts for web pages, rein-
stalling machines, nis, ssh, HylaFax, MS Access, UNIX
based Samba services

Education

08-2000 – 12-2001 **University of Central
Oklahoma** 9hrs of Management/English/History

01-1998 – 12-1998 **Illinois Central
Community College** 9hrs of Computer Science classes

08-1993 – 05-1996 **University of Missouri
at Rolla** 76hrs towards B.S. in Computer Science

Professional Organizations

1994 – Present **ACM** *member, <http://www.acm.org>*

Internet Software Project Involvement

- OpenBSD** *developer, <http://www.openbsd.org>, a BSD operating system focusing on security, utilizes peer review*
- coded multi cpu support for top(1)
 - maintain various ports
 - coordinated compile of X for releases on 5+ platforms
 - maintain m4 MAKEDEV and distrib/notes ('grep todd /dev/MAKEDEV')
 - some misc coding
- SCPS** *contributor, <http://www.scps.org>, Space Communications Protocol Standards - software to implement IPN, Inner Planetary Networking, based on Vint Cerf's rfc draft*
- implemented OpenBSD support
- BOCHS** *developer, <http://bochs.sf.net>, pc simulator*
- coded several improvements to allow OpenBSD to boot
 - overhauled the (output/error) logging mechanism
- freeradius** *contributor, <http://www.freeradius.org>, a versatile radius daemon*
- implemented SQL re-connect for MySQL
 - implemented SQL socket rotation (to prevent timeout)
- Linux** *contributor, <http://www.kernel.org>*
- modularized the xd (old pre-ata disk controller) driver
- LAM** *mirror maintainer, <http://lam.fries.net>, Multiple Processor Interface (MPI) implementation*