

# BRIAN E. LAVENDER

PO Box 19184  
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<http://www.brie.com/brian/>

## Objective

Work with Unix type operating system and database tools to create and implement solutions to automate business processes along with integration into other network architectures.

## Experience

Programmer / Systems Analyst March 1998 – Present  
**Army Corps of Engineers**, Sacramento, CA  
Contractor through ITS Corporation and Maxim Group

- Developed a custom financial management database using Oracle for tracking the Total Environmental Restoration Contract (TERC) group's cost plus fee contract plus interfaces to the Army Corps of Engineers' (ACOE) accounting server called CEFMS.
- Developed reconciliation tool for correlating payments from CEFMS to projects not stored in CEFMS using spreadsheet and a PERL program.
- Developed Paradox graphical user interface (GUI) for users to input data into the custom created database along with the capability to generate reports that would come from either the CEFMS accounting database, the custom TERC management database or both.
- Prototype PERL/Tk GUI application for interfacing into the databases.
- Developed advanced session maintaining CGI interface to the TERC and CEFMS database. CGI application allows user to dynamically traverse data along with maintaining stringent security standards. Used PERL to code application along with Emacs and CVS for development and revision control.
- Researched various reporting tools such as LaTeX, and Postscript.
- Provide occasional assistance to other divisions with computer needs.

Owner February 1996 - Present  
**Brie Web Publishing**, Sacramento, CA

- Build, develop, and maintain custom internet infrastructure for clients including mail server, web server, ftp server, DNS server, secure web server, samba server which emulates an NT server, print server, and database servers.
- Create custom CGI applications and web sites for clients.
- Maintain <http://www.brie.com> web site.
- Research and become familiar with the vast array of Unix type operating system tools.

Founder and President October 1998 - Present  
**Sacramento Linux Users Group** (<http://www.saclug.org>), Sacramento, CA

- Founded the Linux Users Group because there is so much to learn with Linux/Unix, that one would spend forever learning it all by oneself. Linux is a Unix type operating system, and complies with POSIX standards.
- Host monthly meeting with guest speaker who speaks on volunteer basis. Group buys dinner for guest speaker.
- The club hosts monthly installfests where we help each other with the challenges we create for ourselves. We also use the installfests to display our latest accomplishments. We often give out free CD's of Linux or burn copies to give away.
- Created <http://www.saclug.org> web site along with support with members. SacLUG features a majordomo mailing list where real time discussion occurs along with a hypermail archive and the [ht://dig](http://dig) search engine.

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- Given various presentations to SacLUG:
  - Installing Oracle on Linux
  - GRASS on Linux (GIS system)
  - IP Masquerading for Linux
  - Samba (NT server)
  - Mail to Database to Web PERL scripts
  - The Zoo programming analysis-using PERL compared to using C for CGI development.

Substitute Teacher

**Napa Valley Unified School District**, Napa, CA  
**Elk Grove Unified School District**, Elk Grove, CA

November 1996 – March 1998

- On call to teach grades K-12
- Follow lesson plans, modify if necessary, and employ emergency materials when necessary
- Frequently teach in networked computer labs
- Collect materials and make evaluations for teacher

Mechanical Engineer

**AeroAntenna Technology, Inc.**, Chatsworth, CA

April 1995 - August 1995

- Gathered requirements and organized plan for GPS antenna test fixture.
- Designed test fixture to evaluate antennas to specification and drafted on AutoCAD
- Supervised fabrication of GPS antenna fixture and built some myself. Communicated with contracted fabricators for certain parts
- Drafted procedures and assembly drawings for GPS antennas

## Activities

French, Cycling, Walking, Photography, Internet, swimming, hiking, Midtown Sacramento

## Education

**Bachelor of Science** Mechanical Engineering      March 1993      GPA: 3.25  
Cal Poly,      San Luis Obispo, CA

### Self Development

- Debian GNU/Linux
- Self taught Unix Guru
- PERL, C, C++, a little Java.
- X window manager environments including KDE, GNOME, Enlightenment, FVWM, FVWM 95, and Window Maker
- Tcl/ Tk, Perl/Tk