

Ben Lipkowitz
http://fennetic.net

fenn@sdf.lonestar.org
(703) 343-5730

Skills (most confident first in each category)

Web/Networking:

search, ssh, wiki, HTML, CSS, apache, mod_rewrite, TCP/IP, DHCP, DNS, SPF, firewalls, NAT, CGI, cherrypy, django, template toolkit, mason, tcpdump, ARP, spamassassin, mailman, netapp

Unix/Linux:

rtfm, coreutils, Debian, Ubuntu, screen, apt, sed, NFS, kernel compiling, grub, RedHat, rta, mon, OpenVZ, ntpd, MySQL, yum, iptables, slocate, namazu

Programming:

Python, vim, git, C, Perl, bash, CVS, svn, gcc, make, rs274ngc, PHP, C++, Lisp, postscript

Libraries:

pyyaml, graphviz, cairo, opencascade, opengl, stuff i'm forgetting

Office:

typing 120wpm, vector graphics, spreadsheets, graphing

Laboratory:

sterile techniques, colony isolation, tissue culture, agarose gels, PCR, notebook-keeping, weighing, photospectrometry, titration, immersion microscope, hemacytometer, distillation, column chromatography, southern blot, NEBlot-phototope, gel extraction, DNA sequencing, sequence alignment

Electronics:

AVR microcontrollers, circuit testing, parts procurement, circuit layout, H-bridge, SPI, USB, i2c

Manufacturing:

inventory management, hand tools, circuit board fabrication, soldering, lathe, mill, measuring, metal casting, industrial automation, pneumatics, carpentry, MIG, TIG, arc, plasma, CNC, fiberglass, resin casting, oxyacetylene, papercraft

Languages:

English, Spanish, Japanese, Lojban

Formal Education

2000 - 2003:

Indiana University - Bachelor's of Science, Microbiology, "with distinction" (GPA 3.72)
Studied horizontal gene transfer between plant mitochondria for senior project.

Biology:

molecular genetics, molecular biology, organic chemistry, bacteriology, immunology, virology

Math:

linear algebra, calculus, statistics

Informal Education

2001- 2008:

Engineering:

units, actuators, manufacturing processes, control theory, artificial intelligence, space tethers, turbines, rockets, CAM, CAD, kinematic design, self-replicators, rapid prototyping

Experience

2005-2008: EMC2 project

Open source developer; wrote a stewart platform simulator, investigated various improvements to motion queueing and IPC, bugfixes, testing, significantly improved documentation and wiki.
contact: #emc-devel on irc.freenode.net or board@linuxcnc.org

Experience (continued)

2007 May-Nov: Datarealm, Inc.

Backend Engineer; resolved database, spam, and Linux server automation issues. Created a new spam filter configuration interface for employees. Documented Perl infrastructure from 1994. Assisted technical support dept in finding solutions.
contact: August Wohlt, wohlt@isidore.net

2009 Jun-Aug: UTexas Automated Design Lab

Summer Research Experience. Put in place subversion, wiki, mailing list, hostnames, backups etc. and helped other staff learn to use them. Designed formats for representing manufacturing processes and part compatibility. Documented disassembly procedure for various consumer items.
contact: Prof. Matt Campbell 512-232-9122, mcl@mail.utexas.edu
contact: Bryan Bishop 512-203-0507, kanzure@gmail.com

2010 Jan-...: Lifeboat Foundation

Scientific Advisory Board, not really sure what yet