

Nathan Paul Simons

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DREAM JOB

Creating awesome open source software, on Linux, to make the world a better place, from my home office. I am not currently willing to relocate.

EDUCATION

New Mexico Institute of Mining and Technology, Socorro, NM
Bachelor of Science, Computer Science, May 2000

EXPERIENCE

Computer Scientist Naval Air Warfare Center Fall 2001-Present
China Lake, CA

Lead a small agile team for RF modelling of IED training simulation written in C++ and targeting Unreal Engine (**I-GAME**; includes CI, CR and analysis using Jenkins, Gerrit, Sonar and Bugzilla).

Modified IDAP2 (In-flight Data Acquisition Pod) software to collect data over Ethernet (C++ on VxWorks/PowerPC).

Ported DPSS (Digital Precision Strike Suite) to VxWorks on PowerPC and converted to library for use in embedded applications (C++ development and testing on Linux/ia32, VxWorks/PowerPC and Windows).

Junior Engineer Finite State Machine Labs Spring 2000-Fall 2001
Socorro, NM

Designed and implemented various new features of RTLinux, including user-level real-time signals library, regression tests, and ported the in-kernel RTLinux debugger to Alpha platform.

Systems Programmer New Mexico Tech Computer Center Spring 1998-Summer 2000
Socorro, NM

Maintained network, computers and related systems; areas of responsibility included FTP server, print server, UNIX/Win95 apps, Linux systems, Macintosh lab, Solaris systems.

COMPUTER SKILLS

Languages: Proficient in C, C++, Perl, UNIX shells; familiar with Python, Tcl, Java, Scheme, LISP, HTML, CSS, \LaTeX , SQL, JavaScript, sed, awk, Objective-C

Toolkits/Frameworks: Proficient with C++ STL, libtut, libcoyotl; familiar with Qt, FLTK, Tk, wxWidgets, FFTW

OSes/Environments: Proficient with Linux (Debian), Emacs, vim; familiar with MacOS9 and X, Windows 2000/XP, Eclipse

Tools: Proficient with git, Gerrit, Jenkins, Sonar, Bugzilla, make, SCons, KVM, VMWare, valgrind, GCC, bastille, tiger, chkrootkit, iptables, Apache, djbdns, sshd, qmail; familiar with SQLite, flawfinder, pmccabe, pscan, rats, fuzz, splint, bfbtester, qemu, bochs, dosbox, monotone, salt

LIFE OUTSIDE OF WORK

Member of the Association for Computing Machinery (1996-Present)

Member of the China Lake Mountain Rescue Group (2008-Present); helped teach summer class; searched for and rescued multiple people

Saxophone section leader, librarian, webmaster and email list administrator for the Big Band X-Press (2001-Present)

Manage a heterogeneous home network, including file, print, web (with blog) and email server centered around Debian GNU/Linux (2000-Present)