

# Paul M. Sander

paul@wakawaka.com

**OBJECTIVE** Senior software configuration management and release engineer with proven record for bringing new products to market seeks to apply lessons from past successes to create new ones. With emphasis on toolsmithing, to work with a highly skilled development and management team to design and implement processes, procedures, and tools to support the development, packaging, and distribution of high quality software.

## **COMPUTER EXPERIENCE**

**Languages:** Bourne/Korn shells, C, C++, HTML, Perl, TCL, others.

**Software:** ClearCase, RCS/CVS, Imake/Make, World Wide Web (CGI), Frame Maker, Star Office/Open Office, others.

**Operating Systems:** Unix (AIX, FreeBSD, HP-UX, NetBSD, Solaris), Macintosh (MacOS 8,9,X), Windows (NT and 2000), others.

## **PROFESSIONAL EXPERIENCE**

**Sun Microsystems, Inc., Sunnyvale, CA**  
**Staff Engineer**

2002 - present

Senior engineer applying software configuration management (SCM) principles to microprocessor designs. Designed and implemented engineering change order (ECO) processes for three projects, including (for the first time in Sun's hardware design organization) a tight integration between source control, defect tracking, and ECO methodology. Worked with a staff of 2 to 4 to perform design integration and tape-out activities, design repository maintenance, SCM-related desktop support for engineers and mask designers. Maintained web site content, including CGI scripts and static HTML generated automatically by crontab. Filled liaison function between projects and central computing resources team. Participated in committees planning long-term policies and procedures and in grass-roots efforts to share integration and ECO technologies across projects. Invented and evangelized methods of managing design environments and design snapshots that were later built and deployed by the CAD team. Gave end-user training. Wrote and maintained tool specifications and other documentation to a level of quality and completeness that is higher than the norm at Sun.

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**Industrial Volleyball League, Inc., Redwood City, CA** 1996 - present  
**Webmaster, Supervisor**

Part-time contract position developing, maintaining, and hosting the company's web site. Preparing and clearing gymnasiums for volleyball leagues and classes. Prepare and publish league statistics.

**PayPal, Mountain View, CA** June, 2002 -  
**Release Engineer** July, 2002

Contract position converting software build procedures from using internally developed tool to Gnu Make, compiling C++ and Java on Linux.

**BroadVision, Inc., Redwood City, CA** 1995-2002  
**Principal Software Engineer/Toolsmith**

First member of BroadVision's release engineering team that grew to six members in Redwood City. Designed, developed, documented, and maintained BroadVision's configuration management system, including version control, and build and release tools. Wrote packaging and installation procedures for most Unix-based product lines. Lead the conversion from CVS to ClearCase. Planned and lead ClearCase upgrades through several releases with minimal impact on product development. Assisted with deployment of SCM and build tools to multiple sites of an acquired company. Supported product developers and pre- and post-sales support engineers to resolve configuration management issues. Manufactured distribution media (CD's and tapes). Performed product builds. Technical liaison with system administration contracting company.

**HAL COMPUTER SYSTEMS, INC., Campbell, CA** 1991-1995  
**Member of Technical Staff**

Part of the five-member Software Tools and Integration group. Maintained and enhanced CVS internals. Specified, implemented, and supported integration and build tools intended to support an SEI level 2 process. Wrote regression test suites. Consulted with development and integration teams regarding configuration management issues. Administered source code repositories. Documented procedures. Products ran on Sun OS, Solaris, and HP-UX. Contributed to World Wide Web site.

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## **ATHERTON TECHNOLOGY, Sunnyvale, CA** **Software Engineer**

1987-1991

Project leader for the Project SoftBoard product (a software defect tracking application) for two years, responsible for ongoing development and maintenance of 70,000 lines of code. Was responsible for much of Atherton's text-based user interface technology. Wrote and maintained specifications for these technology and program products. Products were required to run on Sun OS, AIX, Ultrix, and VMS.

## **QUIVUS SYSTEMS, Encinitas, CA** **Software Engineer**

1985-1987

Developed, maintained, and documented applications and system software for fire protection agencies. This software included a personnel time management application, an interprocess communication package, database applications, and others. Provided on-site and telephone support for hardware and software products.

## **Foothill/De Anza Community College District** **Assistant Systems Programmer, Lab Assistant, Tutor**

1979-1983,  
1984

Assistant systems programmer for 12 months, supporting the development of tools and performance measurement programs under VM/CMS, VSE/Advanced Functions, and CICS. Computer lab assistant for 3 months, assisting students debug programming assignments and teaching them to use the computer equipment in the lab. Computer programming tutor, supplementing class instruction in BASIC, Fortran, Pascal, IBM 370 assembly language, and VSE/Advanced Functions job control.

## **Skyles Electric Works, Mountain View, CA** **Technician**

1982,  
1983

Summer hire, tested and troubleshoot peripheral devices and software for Commodore computers. Provided telephone support for customers. Designed and built test equipment.

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**Apple Computer, Inc., Cupertino, CA**  
**Assembler**

1979,  
1980

Summer hire, tested and troubleshoot Apple II and Apple III logic boards and peripherals.

## OTHER EXPERIENCE

Develop and maintain free software:

- Build-related tools Buildref (baseline reference) and Envctrl (environment control).
- Software ChipSet (reusable software components).

Manage a personal three-node Internet site, including DNS, email (sendmail, IMAP, POP), FTP, Secure Shell, and World Wide Web servers.

## EDUCATION

**University of California, San Diego, La Jolla, CA**  
Bachelor of Arts, September, 1983 to June, 1986  
Major: Computer Science  
Minor: General Linguistics, Drama

**De Anza Community College, Cupertino, CA**  
Associate of Arts, September, 1979 to June, 1983  
Major: Data Processing (Science option)

## REFERENCES

Will be provided upon request.