# Andrew Sharp

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With more than 20 years in the computer business, I have garnered a unique variety of experience and expertise. This experience ranges from advising the executive committee at NCR on software development methods to Unix kernel engineering, and a lot in between. I bring all that to the table as a software development or IT manager/director. Since 1986 I have performed a large body of consulting work that appears here under the heading of my company, Sharp Programmers. A separate listing of those engagements is available at Consulting Projects Summary. All other listings here are for permanent positions.

**Continuous Computing, Mountain View, CA, 6/2002 to present**

**Linux Development Manager.** Oversaw the porting of company's High Availability middleware suite to Linux from Solaris, and all Linux development on this product. Designed the porting strategy to convert heavily Solaris-targeted source to a heterogeneous, portable code base. Ported the company's proprietary, multi-threaded, 32/64 bit replicating file system from Solaris to Linux. Ported several of the HA applications from Solaris to a code base able to support Solaris SPARC and X86, as well as a hardware agnostic Linux, including SPARC, ARM, X86. One direct report, software engineer. File system is multithreaded, 64-bit kernel code that implements a replicating HA filesystem with sub-second failover capability, HA NFS capability, link disruption recovery, and full custom multi-threaded concurrent repair (resync).

**Sharp Programmers, Inc., Mountain View, CA, since 1986**

**Sole proprietor** contracting and consulting business focusing on Unix and NT kernel development as well as server applications development. Clients include Hewlett Packard, Sun, NCR, Pacific Bell, Solbourne, Unisys, Wyse, Sony, Veritas. See Consulting Projects Summary for a full listing.

**Open Source Group, Santa Clara, CA, 2/00 to 8/00**

**Director of R & D**and **IT** at open source centric startup consulting firm, joining the company as the seventh employee. Company provided software/web development and IT consulting services. IT: grew the company infrastructure from 6 employees spread amongst three single room offices to over 50 with one office in Santa Clara and one in San Francisco; designed and implemented the entire infrastructure strategy including the sourcing and purchase of all computer and network hardware (desktops, laptops, servers, printers, switches), and ISP selections; an incrementally expanded, completely heterogeneous network infrastructure was implemented entirely with Linux, achieving a vast cost reduction; chaired a steering committee to transition non technical employees from Windows to Linux. R & D: Responsible for creation of R & D plan and launching the group as well as kicking off the lab build out. Oversaw the initiative to create an R & D department to support the furtherance of Open Source software into the enterprise, foster growth amongst our technical consulting staff, and to research custom technical solutions.

**iPass, Inc., Mountain View, CA, 1/97 to 6/97**

**Director of Engineering** at internet software start-up, then the leading company in the development of an internet service that allows ISPs to share their PoPs. Hired the entire software development team; wrote,

coordinated and implementing the development and release plans; ported the server software from FreeBSD and Solaris to Linux, HP-UX and Windows NT; re-architected the entire code base to a portable, multi-threaded software architecture that supported all flavors of Unix and NT thread models; designed and implemented a single, heterogeneous source code build environment for all 11 supported platforms. Software included five network services.

**Dataspec, Inc., San Jose, CA, 4/87 to 12/88**

Co-founded this three person Unix systems Value Added Reseller where we designed, implemented and delivered custom database applications on Unix minicomputers, primarily for Pacific Bell.

**Convergent Technologies, Unix systems Division, Santa Clara, CA, 5/84 to 8/86**

**Senior Software Development Engineer.** Accomplishments included Unix kernel development on Convergent's multi-CPU systems; design and development of a distributed source control system based on SCCS.
**Senior Technical Support Engineer.** Lead technical person in support of Convergent's single and multi processor computers. Authored the official support process for all of Convergent's Unix products; was the senior technical person in the department handling phone support from Convergent's OEM customers engineers, including Unisys, Motorola, NCR, AT&T, Harris, Perkin Elmer, etc. Manager of the beta release program for Convergent's newest minicomputer product.

**Information Systems and Networks, Washington, D.C., 2/84 to 5/84**

**Senior Consultant** for "beltway" consulting company. Implemented a custom BSD Unix driver for DEC RA81 disk drives including special programs to allow VAXs to boot from these unsupported drives. Managed installation and administration of the WAN connecting many diverse Unix-based computers.

**Amecom Division of Litton Industries, College Park, MD, 5/82 to 2/84**

**Project leader** in the Engineering Services department. Managed the group's capital budget (3 million annual); managed the administration of all of Engineering department computers. Defined and performed the systems analysis and administration tasks for DEC mini and micro computers, and provided programming services to Amecom's engineering groups. Amongst many programming tasks, wrote a Unix disk device driver for a PDP-11.

**Education**

Tufts University double major: Computer Science and Philosophy.