

John F. Carr

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Experience

LEGRA SYSTEMS, INC. Burlington, MA
2003-2004

Principal Software Engineer. Designed and implemented software for a wireless ethernet (802.11) access point. Programmed in C++ on Linux. Implemented 802.11 management protocol and 802.1x and WPA authentication.

SIGHTPATH/CISCO Waltham, MA
1999-2002

Senior Software Engineer. Worked on many parts of a content delivery network (CDN), including design and implementation of DNS-based web server selection. Used Java and C++. Co-author: *The Measured Performance of Content Distribution Networks*, Proceedings of the 5th International Web Caching and Content Delivery Workshop. (Cisco bought SightPath in May, 2000.)

COMPAQ Nashua, NH
1998-1999

Contractor. Worked on NFS and cluster filesystems for DEC OSF/1 (aka Digital UNIX (aka Compaq Tru64 UNIX)), and related daemons and RPC library code.

CONLEY/EMC Cambridge, MA
1998

Wrote a RAID device driver for Reliant UNIX and assisted with a driver for Digital UNIX. The driver did failover and load sharing among multiple SCSI or fibre channel paths to a large storage array. EMC bought Conley in August 1998.

RATIONAL SOFTWARE Lexington, MA
1997-1998

Contractor. Worked on ClearCase for IRIX, SINIX, AIX, SunOS 4, Unixware, and MP-RAS. Porting, optimization, and bug fixes, including the kernel filesystem, support libraries, and some GUI debugging.

POLAROID MEDICAL IMAGING SYSTEMS Newton, MA
1995-1997

Contractor. Designed, implemented, and tested network printing software for Polaroid's medical printers. Wrote a device driver and image processing code for a PCI card used in the printer. Worked on realtime system control code. Programmed using C++, C, and Scheme on SPARCstations and PCs running Solaris; and in assembly for Motorola 56000 DSPs.

DIGITAL EQUIPMENT CORPORATION Westford, MA
1992

Consultant. Developed software for DEC's VXT 2000 X terminals, on Ultrix and VMS systems. Work included X server internals, Ultrix drivers, and secure X software.

MIT INFORMATION SYSTEMS Cambridge, MA
1989-1994

Computer programmer for MIT Project Athena and Information Systems. Systems and applications programming on networked UNIX systems. C and assembly language on several types of

hardware and several versions of UNIXPorted software written for BSD UNIX to AIX on the PS/2 and RS/6000. GNU C and C++ compiler development and support for several types of hardware.

MIT PROJECT ATHENA Cambridge, MA
1988–1989

User consultant. Helped users of MIT's Athena computer system.

MASSACHUSETTS INSTITUTE OF TECHNOLOGY Cambridge, MA
1988–1989

Computer programmer. Wrote a demonstration program for networked, computer aided negotiations using the C programming language and the X Window System.

MASSACHUSETTS INSTITUTE OF TECHNOLOGY Cambridge, MA
1987

Worked in an astronomy lab. Designed and built software and hardware for interfacing a camera to a UNIX workstation.

IBM Houston, TX
1986

Computer programmer. Worked on the design of a computerized airline reservation system. Programmed in CSP (a high level database oriented language) and assembly language on IBM computers running VM/CMS.

Skills

Languages: Java, C, C++, assembly.

Kernel and drivers: several UNIX variants; PCI, SCSI, serial, network, graphics devices.

IP Networking: TCP/UDP applications; packet level protocol debugging.

Other: ClearCase, RCS. adb, dbx, gdb debuggers. X library and server. GNU C internals.

Education

MASSACHUSETTS INSTITUTE OF TECHNOLOGY Cambridge, MA
1985-1988,1992

Department of Earth, Atmospheric, and Planetary Science.