

John Willauer

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22425 Ventura Blvd. # 15
Woodland Hills, CA 91364

Senior Systems Software Engineer with expertise developing creative solutions for complex problems using system development experience from multiple industries.

System Software Designed and Developed

- Embedded Real-Time Multiprocessor systems.
- Software Development Tools.
(System Simulators, Conversion Tools, Software Testers, etc)
- Multiprocessor Performance and Reliability Software Analyzers.
- Microprocessor Communication software.
- Interactive Multi-Media software for CD-ROM game systems.
- Remote Diagnostic System for Digital PBX.

Industry Experience

Defense, Aerospace, Automatic Test Equipment (ATE), Telephone/Data Communications, Entertainment/Games, Medical Record Administration

Operating Systems (installed, managed, and used)

Linux/UNIX: Ubuntu, Red Hat, Debian; Apple: Mac OS X; Microsoft: Windows XP;
Sun: Solaris; Tensilica: RTOS; Analog Devices: DSP / RTOS; Micrum: uC/OS-II

Programming Languages

C/C++, Fortran, HTML, Perl

Assembly Languages:

Intel: x86; Data General: Nova 2/3; DEC: VAX (Macro); Motorola: 6502, 6800;
NEC: TurboGrafx, Litton-3050: (MOL); Zilog Z80

Education

University of California at Los Angeles (Extension)
Certificate in Digital Signal Processing (2005)
Distributed Data Processing, Data Communications, Data Base Design Systems,
Human Factors Engineering, High Tech Marketing

California Polytechnic University, San Luis Obispo, California
Bachelor of Computer Science

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Experience

2006 to present

Created a secure LAN to share data, internet access, printers, VoIP and video production resources with Linux, Macintosh, and Windows computers. Established a secure neighborhood wireless internet access hot spot.

Refurbished recycled computers for schools and underprivileged families. Provide remote technical support for elderly and underprivileged new Linux users.

Designed and installed a multimedia presentation system for a local church. Also created multimedia presentations for Sunday church services.

Presented seminars and training courses on invisible computers and Linux.

Northrop Grumman: Navigations Systems Division **Embedded Software Engineer**
(formerly Litton: Guidance and Control) 2001 - 2005

Designed and created C and Assembly language software for several different test sub-systems to validate a systems compliance with both functional and interface requirements.

Created a virtual multiprocessor hardware simulator to test Nuclear Circumvention and Recovery communications logic for a set of custom designed embedded navigation system processors.

Used a JTAG/ICE interface to load and test converted Matlab generated C++ code on a Analog Devices SHARC DSP based navigation system.

Automated Controlled Environments Inc. **Sr. Software Engineer** 2000 - 2001

Designed and developed a multiprocessor software simulator in C that reduced product development time by 30 percent.

Designed a multiprocessor software performance analyzer that, with an incircuit emulator, identified the critical software logic that optimized the systems response time and reliability.

Designed and developed embedded software in C for the 63 Intel 80C188 micro-processors used in the Power Distribution Units (PDU) for Kistler Aerospace's K-1 launch vehicle.

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JBW Enterprises

Consultant

1988 - 2000

Developed software for new product prototype for an interactive mixed CD-Audio and CD-ROM disk for NEC TurboGrafx game machine. Developed DOS C software to reverse engineer TurboGrafx ROM code. Research saved Time Warner New Media \$3 million.

Provided active Worldwide Technical Support for several independent NEC TurboGrafx game product developers to help reduce their product development time.

Designed an interactive learning system for Learn One to use game machines and the internet to provide a personalized learning environment for individual training applications. Developed applications using assembly language, Macintosh HyperCard and HTML.

Created a web site for the Outstanding Professionals Employment Network (OPEN). The website helped market experienced and skilled corporate executives, scientists, engineers, computer specialists, financial analysts and other unemployed professionals (www.eu-open.org).

Jet Propulsion Laboratory / NASA

Contractor

1986 - 1988

Created DEC VAX C software to reverse engineer and document, logic and data flow for over 500,000 lines of Assembly and Fortran source code. Reduced the project completion time for a Jet Propulsion Laboratory contract from 14 months to 3 months.

Created customized planning and scheduling software for the Mars Rover and TeleRobotics projects.

Maxicare Health Plans

Systems Manager

1983 - 1985

Saved Maxicare Healthplans \$1 million per year on design, and management of three facilities (8,000 sq. ft.) with 18 custom designed DEC VAX computers systems, and the LAN and WAN data communications networks used for the HMO's accounting record processing.

Lexar, Division of United Technologies

Systems Engineer

1981 - 1983

Designed and managed new DEC VAX computer facility for over 100 hardware and software design engineers to develop the first all digital PBX telephone system for United Technologies, Lexar Corp. Increased effectiveness of computer support resources; reduced the time to bring the new product to market by over 4 months.

Created a remote diagnostic system that significantly reduced repair time of distant installations.