

Personal summary: creative software engineer with competence and expertise in real-time concerns, systems architecture, communications, and protocol implementations.

Professional History

IBM Corporation / Internet Security Systems, Inc. (Sandy Springs, Georgia); July 2006-present

- Analyze actual and potential computing security vulnerabilities. Write C software for the prevention and tracking of network-based intrusions, exploits, viruses, and other events.
- Environment with quick turn-around time and absolutely flawless performance requirements.
- Use code-regression mechanisms and other automated testing techniques to ensure the perpetual proper performance of code behavior.

Videoconferencing Systems, Inc. / Simtrol, Inc. (Norcross, Georgia); May 1993 - June 2006

- Ground-up design and development of Omega and Ongoer lines of video-conferencing and device-control systems including device control of codecs, camera servos, video routers, audio processors, infrared receivers and controllers. Remote diagnostics via web browsers, SNMP, etc.
- Developed programmable packetizer for easy recognition and processing of data according to diverse device and communication protocols.
- Implemented cross-platform programming interface to provide implicit multithreading, automated program-module synchronization, deadlock preclusion, and easy-to-maintain hierarchical code-invocation structure.
- Technical liaison for joint development projects with national and international firms.
- Development of Curiax Arraigner, a video-conferencing system supporting bond hearings and judicial arraignments via multimedia conferencing with case-management and document-workflow processing for the exchange of documents before, during, and after proceedings.
- Granted seven patents for novel video-conferencing technologies including mouse-driven control for camera positioning, and networked video-conferencing system.

American Telesystems Corporation (Atlanta, Georgia); January 1986 - April 1993

- Development of Express Messenger and Voicemate voice-mail and voice-response systems on PC hardware using VRTX real-time kernel.
- Wrote device drivers for disk, telephone interface boards, serial communications.
- Created 80386 kernel to provide memory paging and debugging for virtual 8086 tasks.

Educational History

Georgia Institute of Technology: Master of Science in Electrical Engineering, 1985

University of Florida: Bachelor of Science in Electrical Engineering, with Honors, 1984

Technological Competence

Languages: Expert in C++, C, Intel assembly language, PHP; working knowledge of Java, Visual Basic, C#, Perl, Basic; some exposure to several other languages.

Development Environments: Microsoft Visual Studio 2005, Visual Studio 6, and IBM Rational Application Developer (Eclipse) / WebSphere.

Operating Systems: Windows, Linux (Gentoo, RedHat, Ubuntu); historical experience in DOS, OS/2, VMS, VRTX, BSD, and various mainframe operating systems.

Databases: DB/2, SQL Server, Oracle, MySQL, MySQL.