

software and systems integrators

technical expertise

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OBJECTIVE

Help companies realize cost reductions, new product and optimizations through design and implementation of software and hardware systems in process control, IT, and R&D

TECHNICAL EXPERTISE

- Algorithms for control and processing
- Internet Automation
- Programming
 - Web Technologies
 - C/C++/C#
 - LabVIEW, LabWindows
- Multiple Operating Systems
- Hardware Integration
- Test Systems Integration & Automation
- Data Communications
- Networking
- Embedded Systems
- Project Management
- Image Processing
- Optics

Minnetronix // medical equipment manufacture

- Designed test methods for testing PCBs, subassemblies and end of line
- Automation of test equipment using LabVIEW, Excel and Linux.

Crystal Medical

- Design and building bio-stimulation equipment for medical applications.
- All software written in C#
- LabVIEW prototype of next generation.

DRS

- Designed and built user configurable Web 2.0 HMI system for configuration and test of custom hardware.
- Built custom proxy server for pushing data to the web browser for real time data logging.

Whitebear Photonics

- Handle computer and IT operations for daily operations.
- Handle system integration for custom applications.
- Help with repair of optical equipment
- Provide hardware design support

ID-ology

- Image processing to measure key parameters of large animals.

Data Recognition Corporation

- Worked on modification of AS2/AS3 commercial code libraries.

Jostens

- Worked on web based applications used in the design, layout and production of yearbook type products.

Cigna Insurance

- AS3 frontend and JAVA backed internal web based app for processing client claims.

Realityworks

- Built a custom web server in C++ that directly communicated with hardware and ran on multiple operating systems.
- XML driven configuration and customization
- AJAX base hardware maintenance interface
- Integrated software for spread spectrum RF communications
- Evaluation of several hardware sensor technologies for future and current products.

Imation

- Optical disc mastering and testing control software
- Designed and built simulation systems that used web based HMI; allowing visualization of phase relationships
- Built custom XML editors for generation of control files used in front end DSP systems
- Development of advanced optical disc mastering processes

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employment and education

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HIDE AND SEEK TECHNOLOGY

CHIEF SOFTWARE ENGINEER

01/2001 - 08/2004

- Designed, implemented, and evaluated security methods for use on optical media.

IMATION

SENIOR ENGINEER

08/1996 - 01/2001

- Developed embedded system that integrate data processing equipment with laser recording systems
- Developed process control systems for mastering, replication, and testing of optical disc.
- Developed DSP systems.

MULTIPLE COMPANIES

ENGINEER

06/1977 - 07/1996

- Hardware design, software maintenance, and installation of central office telephone systems
- Worked on IO control system for first generation mobile phone systems
- Power distribution test systems
- Designed and built many types of test systems
- Evaluated and installed test equipment for production
- Systems engineer for high vacuum coating project
- Developed UI and control logic for conveyer
- Developed real time control system for optical density and wave length measurement of first generation optical disc
- Wrote documentation to support ISO 9000 certification
- Worked on the development of several different optical media format

EDUCATION

PURDUE UNIVERSITY

Bachelors Degree Electrical Engineering