

## Skills Summary

- Strong software design and debugging skills.
- Ability to quickly understand and apply new concepts.
- Experience with web development, including HTML, PHP, MySQL, AJAX, XML, Javascript, and Java.
- Experience with most versions of MS Windows and Unix operating systems.
- Experience with C, C++, HTML, PHP, MySQL, Java, and Fortran. Also familiar with Access, Visual Basic, Lisp, Perl, Basic, and various Unix scripting languages.
- Familiarity with various GUI toolkits, including ActiveX, MFC, GDI, Motif, X Windows, AWT, and Swing.
- Familiarity with numerous 2D and 3D vector and raster graphics formats and toolkits.

## Employment History

- 1/02- **Software Consultant** Vista Software LLC
- Heavily involved in the design, development and maintenance of several websites and tools using PHP, MySQL, AJAX, and CSS, including ActivityAlert.com, 4x4TrailInfo.com, and a leading Content Management Services provider.
  - Developed a new scheduling algorithm for an IP telephony monitoring system that greatly improved performance, helping the company sign a major contract. This was a multithreaded application using C++ templates and network communications.
  - Developed an MSAccess application to track parts inventory and work orders for housing maintenance.
  - Developed graphical markup tools for a web based application using ActiveX, C++, and XML.
- 12/98-12/01 **Technical Fellow** Spatial Corporation
- Heavily involved in the design and prototyping of a new architecture for the IVSDK.
  - Used JNI and C++ to add a Java interface to several features of the IVSDK.
- 5/97-12/98 **Senior Software Engineer** InterData Access, Inc.
- Added support for VRML file viewing to the IntraVision graphics viewing package.
  - Developed a plugin for Adobe Acrobat Exchange that uses IPC to display PDF files in IntraVision.
  - Made improvements to IntraVision architecture to improve maintainability, extensibility and modularity.
- 9/93-5/97 **Software Engineer** Spatial Technology Inc.
- Made several enhancements to the C++ ACIS Solid Modeling Kernel to improve its extensibility and modularity.
  - Developed display interfaces for the ACIS 3D Toolkit, including interfaces to faceting and rendering packages.
  - Designed and built development tools which greatly improved sharing of data between development groups.
- 6/89-9/93 **VP Engineering** IGES Data Analysis, Inc.
- Principal architect of products implemented in C which allowed the company to triple in size in four years.
  - Developed GUI based editor and scripting language for IGES files.
  - Developed modular libraries used to create graphics viewing and translation products. Includes data traversal, 3D graphics manipulation, and 3D graphics rendering routines.
- 5/84-6/89 **Senior Software Engineer** McDonnell Douglas Manufacturing Industry Systems Company
- Lead designer of a modular architecture for development of CAD/CAM data translators in C.
  - Redesigned, implemented, and supported a bidirectional translator between Unigraphics II and IGES. My redesign and handling of customer calls greatly improved customer satisfaction with this translator.
  - Designed and implemented a translator from PDDI to Unigraphics. I received an award for completing this project well ahead of schedule and under budget.
- 8/80-8/83 **Coop Student** McDonnell Aircraft Company
- Alternate semesters of school with work, receiving consistently high evaluations in each work assignment.

## Education

- 5/84 **B.S. Computer Science** University of Missouri at Rolla