

Chris Robison

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Objective

To apply a background of diverse professional experience with design, manufacturing, fabrication and related manual arts, electronics, computer and information technology including computer programming, application design, computer hardware, networking, troubleshooting, and technical writing, to a generalist role in manufacturing technology, electronics, and software development.

SKILL SET

Mechanical design using Solidworks, Rhinoceros and Alibre Design (now Geomagic Design) CAD software, reverse engineering and design capture using arm and optical/laser type CMM equipment, some machine tool (lathe and mill, manual and CNC) operation, metalworking and welding (TIG, MIG, stick, steel, aluminum), sheet metal fabrication. Woodworking, laser and waterjet cutting on diverse materials. Embedded development and firmware debugging.

Software Dev/IT Related:

C/C++ (GCC, KEIL for ARM Cortex, Microchip MPLAB, Eclipse, Visual C++), Java, Perl, Python, Visual Basic, SQL, multithreaded software design and IPC, user application design, database design, business process engineering/workflow modeling, COM/DCOM/ActiveX, RPC, ODBC, network administration, customer relations/support.

EXPERIENCE

Revolt Custom Electric Vehicles LLC

July 2007 - Current

Cofounded company to develop high-performance electric vehicles and components. Full time as of January 2009. Embedded development includes writing and maintaining software for custom CAN interface boards for customer vehicles, and developing the firmware for a 3-tier lithium-ion battery management system for LiFePO4 (lithium iron phosphate) batteries, on in-house developed boards based on the STM32 ARM Cortex, and Microchip PIC18 and PIC24 platforms.

Other roles include reverse engineering and developing custom electric vehicle conversion designs in parametric solid modeling CAD software, doing moderate custom sheet and channel stock metal work and welding, wiring, installation and finish work on customer vehicles.

Austin Area Electric Vehicle Association (AustinEV)

September 2001 – Current

Vice president of nonprofit organization, assisting and advising members and the interested public with electric vehicle conversions and maintenance, scheduling and coordinating public events and trade shows, moderating and participating in public internet discussion list

eBay, Inc

March 2008 – January 2009

Old career experience:

Senior Software Engineer for Paypal unit in Austin TX. Wrote software for Global Operations team, enhancing internal software infrastructure for customer service agents and online customer self-service. Wrote software in C++ and targeted for Linux operating system.

Excel Telecommunications

December 2006 – February 2008

Wrote high-performance database software for managing and reporting on data from high-volume telephony servers running the Asterisk software platform and switches running software from Veraz Networks. Development and deployment primarily on Linux based systems, using C, C++, Java, and Perl.

New York Life Insurance Company

June 2000 – December 2006

Designed and built applications and wrote code to supplement the *FutureFirst* insurance industry-specific software provided by Computer Sciences Corp, using a proprietary development environment called *GraphTalk*. Wrote code in GraphTalk Developer Language (GDL), which is based on Prolog and adds object-oriented database capabilities, utilizing Oracle as the back-end data store. Wrote and maintained other miscellaneous support code in C++, VB, Oracle SQL, Java, and Windows batch scripts.

Designed workflow processes for the Medical Information Unit (MIU) and Underwriting departments to modernize processing of new business. Designed and wrote software to support these workflows, including features to implement physical file tracking with bar codes, improved user security and permission management, and adding interfaces and frameworks to the codebase to facilitate subsequent software development.

Wrote additional data gathering, reporting and other software as needed for other

Alliances Abroad, Inc.
October 1999 – June 2000

departments, including Accounting, Compliance, Actuary, and Policy Owner Services. Built and maintained an office network, setting up network hardware and retrofitting building with in-wall cabling. Specified, purchased, assembled and performed troubleshooting and maintenance on office PCs. Arranged internet connectivity with Red Hat Linux-based firewall.

Administered a small NT Server based network of Windows 98-based PCs and NT workstations, and performed desktop support and troubleshooting role with these systems.

Developed database-driven software and worked to define business processes to modernize the company's operations and communications with field personnel.

Pervasive Software, Inc.
February 1998 – October 1999

Assisted customers in resolving application development problems using a variety of APIs and technologies, including ADO/OLE DB, a proprietary ActiveX control set, the Btrieve call-level API, the Pervasive Direct Access Components (a Borland Database Engine (BDE)-compatible API), JDBC, a native JNI-based Java class library, and ODBC and ODBC-derived APIs. Supported customers developing in Visual C++, Visual Basic, Borland Delphi, Borland C++ Builder, Java (Visual Cafe, Jbuilder, Visual J++, JDK 1.1). Worked to debug customer applications, finding coding errors and also verifying defects in our APIs. Wrote sample code and wrote/edited programming documentation.

Supported customers over long-term (often many weeks or months) problem resolution cycles, requiring ongoing feedback and personal interaction.

VPI Communications Inc.
January 1996 – February 1998

Administered a small NT Server based network of Windows 95 and Windows NT PCs and workstations composing a production environment for still-frame television advertisements.

Designed, developed and managed a RAS and ISDN WAN-based communications system for post-production processing, compilation, format conversion and delivery of advertisements to automated playback computers located in several cable television markets across the country.

Systems Control Innovations
May 1995 – January 1996

Developed extension libraries for use with Wonderware's InTouch product, a popular SCADA/Human-Machine Interface development environment for the Win16 platform. These extensions were to allow developers to make better use of the Win16 API within InTouch, and provided basic utility functionality for performing mathematical computations, BCD numeric conversions, etc.

Collaborated on the development of software to help with tracking and accounting for gas loss in Southern Union's gas pipeline infrastructure. Software interfaced with SQL Server and IBM 390 mainframe data via MS SNA Server.

Dynamic Information Systems
August 1993 – May 1995

Was the sole developer of DOS-based training and review software for firefighters studying for placement/advancement exams. This product sold nationally.

Worked on a document imaging applications suite intended for the banking industry. This included a signature image management system for scanning signature images and making them instantly available on tellers' computer displays via a hotkey, integrating with existing DOS teller software. Developed the scanning and management system in OS/2.

Performed a limited administrative/troubleshooting role in a Novell 3.x network environment.

EDUCATION

Texas A&M University, Computer Science major