

Consulting Engineer / Systems Architect

James H. Brown

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BACKGROUND SUMMARY

Senior level industry experience and progressive responsibility in systems, applications, and embedded systems level software analysis, design, development, and maintenance. Managed employees and projects, educated employees and customers, and championed technology. Professional educator and published technical writer. Senior level experience with current technologies such as LAMP, JSON, REST, MySQL, Apache, Nginx, and Hadoop. Fluent in multiple languages including assembly, C/C++, PHP, Perl, Java, and SQL. Quick learner with a unique ability to discover and exploit synergy in unrelated products or technologies.

PROFESSIONAL EXPERIENCE

BL Design Solutions, LLC 2001-Present

Provo, Utah

BL Design is a development company that does technology consulting, project design and management, and product development for new concepts and technology.

Chief Technologist & Owner

Some of my projects include:

- Palm OS based virtual pet game for Hallmark's [Dinotopia](#) miniseries
- WAP/WML based travel site (proof of concept for a large airline)
- Web data mining tool for various clients
- [Loomtastic](#) hat knitting loom
- Bi-weekly Perl Tech Tips author for CNET's [Tech Republic](#) site
- Freelance writing for [CNET](#) on a variety of technology subjects
- Computer forensics for one of Utah's largest private investigation firms
- Adjunct professor at UVU teaching Linux classes

- Designed and built several LAMP/WAMP based web projects including:
 - Web front end for a DOS based medical billing system
 - Cradle to grave inventory and formula manufacturing system
 - Library management system including full-text magazine article search
 - Perl based genealogy data validation tools for data entered off-shore
 - Java, Lucene, PHP, & MySQL based system to organize and store reports
 - Several small PHP/MySQL web projects for groups I volunteer with

EnticeLabs, Inc. 1/2010 – 9/2010

Provo, Utah

EnticeLabs is a recruiting company that builds and utilizes cutting-edge technology to bring efficiency and effectiveness to sourcing and recruiting by leveraging social networking and consumer advertising sites.

Senior Software Engineer

Helped design, build, and test a scalable ad server in C and Java utilizing client/server technology on Windows and Ubuntu Linux. Build, test, and debug code for the TalentSeekr and retargeting products. Designed a framework and built specialized modules for web scraping technology to retrieve statistical data from advertising partner sites.

Experience with Hadoop / Hive, Play Framework, Git version control, MySQL, Nginx, JSON, REST, Google API, and Kettle / Pentaho Data Integration.

Madison River Technologies, Inc. dba GeoDiscovery 1999 – 2001

Orem, Utah

Madison River Technologies is an incubation company that takes new ideas and technologies and develops them into products. GeoDiscovery is the first of those concepts to become a product.

Director Of Architecture, Office of the CTO

Architected the over all GeoDiscovery product, GeoDiscovery backend infrastructure, Palm OS based client, and web based client. Built the original demonstration / prototype of the Palm OS client application and web based map server. Developed and presented technology road map and GeoDiscovery architecture to potential clients and Fortune 500 partners. Designed and developed back end components, map viewers, spatial processing code, distributed computing engine, CGI scripts, web database access components, e-commerce integration, map generation, electronic software distribution and security components.

Altiris Inc. 1998 – 1999

Orem, Utah

Altiris, formerly the software division of [KeyLabs Inc.](#), builds desktop computer and network management software for testing and education labs and IT departments.

Consulting Software Engineer

Developed disk imaging software and drivers. Developed and proposed the concept for the RapidInstall product. Architected, designed and developed a storage file system used in RapidInstall and other products. Implemented new revision of software security code.

Novonyx Inc. 1997 – 1998

Orem, Utah

Novonyx is a joint venture between Novell and Netscape. The core business of the company is to produce a version of the [Netscape SuiteSpot](#) products for the NetWare platform.

Consulting Software Engineer

Ported and developed new code for the Netscape web server on NetWare platform. Team lead for proxy server port. Worked with most facets of the Netscape server source code.

Novell Inc. 1984 – 1997

Provo, Utah

Consulting Software Engineer

Core NetWare product design, development, debug and maintenance from the ground up. Integral part of development efforts to revolutionize NetWare several times (from NetWare to Advanced NetWare to NetWare 386/3.x to NetWare 4.x). Developed initial releases of Novell's IPX (Internet Packet Exchange) and SPX (Sequenced Packet Exchange) protocols which helped Novell transition to a more open architecture.

- Reduced internal customer support calls by 50% and response time to 0 by creative web site development including HTML page creation and CGI programming.
- Managed on-time development of embedable NetWare server for NEST (Novell Embedded Systems Technology).
- Designed and developed the smart home proof-of-concept hardware and software for Novell's 1995 COMDEX keynote presentation by company president Bob Frankenberg.

- Created test and production NLMs (NetWare Loadable Modules) including a secure system for customers to recover lost NDS (NetWare Directory Services) administrator passwords which eliminated the need to fly engineers to customer sites.
- Designed and developed both operating system and workstation components including LAN drivers, packet burst, compression, encryption, and LAN protocols.
- Created many internal tools that eliminated repetitive tasks for software developers and for information services personnel saving thousands of man hours. Conceived and created base tools which evolved into ManageWise, nlist, ndir, volinfo and others.
- Founding member of internal Security Task Force. Directly responsible for discrete investigation and resolution of network security issues for Novell and Fortune 500 major accounts.
- Championed technologies as an invited speaker at BrainShare, Novell's annual developer's conference.
- Provided detailed training on a variety of subjects to developer support engineers at the request of management. This training increased productivity by eliminating interruptions of software developers.

RELEVANT SKILLS

- Management and leadership skills learned on the job and at Boy Scout Woodbadge leadership training
- Senior level industry experience at both the systems and applications level
- Background in both hardware and software design and development adds unique perspective to systems and driver level projects
- Web site development including page design and PHP, MySQL, and Perl CGI programming
- Proficient in x86, Z80 and 68HC11 assembler; C; C++; CGI/PERL; HTML; XML; UML; JAVA; JavaScript; NetWare OS debugger; Various source level debuggers; Palm OS programming; NetWare NLM programming
- Multi-processing and distributed processing expertise
- Embedded systems design and development from the ground up including multi-tasking kernel / RTOS development
- Ability to quickly establish rapport and convey complex technical issues and information in an easy to understand style
- Inquisitive nature and ability to see unusual links between unrelated technologies making it easy to improve existing products or create new products and services