

Andrew Sporner

712 Waskin Drive, Tecumseh MI 49286
Cell: (317) 993-1811
asporner@gmail.com

Summary

Seasoned systems architect/engineer with proficiency in embedded software development as well as application development with 15+ years of experience in the industry. My greatest strengths are in my soft-skills, problem solving, innovative development and keeping to deadlines. I am a strong proponent of minimalist designs. My preferred programming languages are C and Perl on Linux/Unix environments where I have had at least 10 years experience on these. My more recent posts have been contract basis, starting from 2006.

Highlights

Skills:

- AJAX Programming
- Concept Design
- Database Planning
- Device Drivers
- Dev-Ops.
- Embedded Programming
- Hardware Debugging (Lauterback/ Storage Oscilloscopes)
- Local Area Networks
- Network Bridge Protocols
- Network Programming
- Problem Analysis
- Real-time Programming
- System Migration
- Systems Programming
- Systems Administration
- Team Leadership

Software

- Broadcom SDK
- C
- Eclipse
- Git
- Javascript
- Marvell cPSS
- Marvell PSS
- Microsoft Team Services
- Microsoft Visual Studio C++
- Nagios
- Perl
- Pro-C
- Shell Scripts (ksh, bash, awk)
- SQL (Mysql/Oracle)
- Subversion
- Wind River Workbench

Operating Systems:

- AIX
- BSDI
- Centos
- Debian Linux
- Embedded Linux
- Fedora Linux
- FreeBSD
- HP/UX
- Interactive Unix
- Oracle Secure Linux
- Red Hat Enterprise Linux
- Solaris
- Suse Linux
- VxWorks
- Windows 7/8/10

Experience

Software Engineer, 6/2018 - Present **Blue Cross / Blue Shield of Michigan, Detroit MI**

Initially, I was brought in as a contractor but elected to convert to full-time employment. Blue Cross is Michigan's premier health insurance provider. My responsibilities thus far have been:

- Analysis and documentation of a legacy application responsible for transferring all claims inside and outside of Blue Cross / Blue Shield.
- Creation of a Media-wiki instance to contain system documentation.
- Addition of additional interactive components to track the progress of the project. This was written in Perl with Mysql on RHEL Linux to track progress of various work orders assigned to our group. This portal featured a pie chart status using JQuery and other JavaScript libraries.
- Directing the smaller aspects of the effort and reporting to management.
- Developed an automated software test framework. The tool was completely written in Perl and used a Mysql back-end to store the test and results on RHEL Linux. The system is web-based and uses SSH to launch test programs on remote systems. The system collects results and allows users to organize suites of tests.
- Mentoring of Junior team members.
- Developed an LDAP enabled web platform using the openLDAP library
- Developed a database synchronization tool to update a project status portal that synchronizes an Oracle 11g database with a Mysql database. This involved using GCC and Oracle Pro-C.
- Architected and developed a new log consolidation portal. The portal used the rsyslogd server, a few C programs to create normalized data for the log database.

Resources: AIX, AJAX Programming, C, Concept Design, Database Planning, Git, JavaScript, Perl, Problem Analysis, Red Hat Enterprise Linux, Shell Scripting, SQL(MySQL), Systems Administration, System Migration, Team Leadership, Windows 10.

Unix Batch C Programmer, 1/2018 – 6/2018 **DXC Technology (Indiana Medicare), Indianapolis IN**

I accepted this contract position to work for DXC technology, formerly HP Enterprise to work on the Indiana Medicaid platform.

Resources: C, Concept Design, Database Planning, HP/UX, Microsoft Team Services, Microsoft Visual Studio, Perl, Problem Analysis, Pro-C, Shell Scripting, SQL (Oracle), Team Leadership, Windows 10.

Owner 12/2015 – Present **Integrated Cloud Products and Solutions, Indianapolis, IN** <https://www.icps-corp.com>

This has been my own company under which I have taken on many consulting projects for other customers. Originally it had been called AJS associates. The name was changed to better reflect the work that I choose to be involved with.

Resources: AJAX Programming, C, Centos, Concept Design, Database Planning, Debian Linux, Device Drivers, Embedded Linux, Embedded Programming, Fedora Linux, FreeBSD, HP/UX, JavaScript, Local Area Networks, Marvell cPSS, Microsoft Team Services, Nagios, NetBSD, Network Programming, Perl, Problem Analysis, Red Hat Enterprise Linux, Shell Scripts, SQL (Mysql), Solaris, Subversion, Systems Programming, Systems Administration, Windows 7/8.

Application Developer 3/2017 – 11/2017
Indiana State Police, Indianapolis, IN

I was hired for this position to be a senior applications developer. The work being done covered a very diverse field which include:

- Authorship of a study on the implementation of In-Car cameras.
- Analysis of standing issues with network performance and producing a report with recommendations.
- Created a system that allowed the department to move to PeopleSoft Time reporting, which had up until then been blocked due to the complex nature of time tracking which was very manual. The system won the Best of Indiana award for a project with state-wide impact (<https://www.in.gov/iot/2852.htm>).
- Created a system whereby mugshots could be extracted from NIST images (creating during the booking process) for facial recognition applications. This was done by opening the NIST packages (received from the NCIC) and locating the front-looking mugshot images and extracting.
- Began a prototype of an internal records keeping portal and design for a custom Computer Aided Dispatch system.

Resources: AIX, AJAX Programming, C, Concept Design, Database Planning, JavaScript, Local Area Networks, Microsoft Visual Studio C++, Network Programming, Oracle Secure Linux, Problem Analysis, Shell Scripting, Subversion, Systems Programming, Systems Administration, Team Leadership, Windows 7/10

System Engineer 4/2013 – 9/2016
Sanmina Corporation Germany/ USA

The main focus of this contract position was to be a trouble shooter, making some personnel changes and improving communication between the company and the customer. I served as Technical Project Liaison with Facebook. This operating systems environment was Centos Linux.

- Developed an automated hardware test framework. This was a scheduler that handled dependencies and was written in the 'C' programming language. It updated back-end restful API services as tests completed. The Restful API handlers were CGI programs running under the Apache Web Server. They were written in either C or Perl, depending on the need.
- Developed a tool to import the server manifest into the testing tool. This involved using a library that opened a Microsoft Excel spreadsheet and imported the data into a Mysql table.
- Created extensions for Nagios to connect to the testing platform. These were written in Perl and had Mysql connections.

Resources: AJAX Programming, C, Centos, Concept Design, Database Planning, JavaScript, Nagios, Perl, Shell Scripts, SQL (Mysql), Problem Analysis, Systems Administration, Team Leadership.

Software Architect 2/2008 – 12/2013
Hirschmann Automation and Control, Neckartenzlingen Germany
http://hirschmann.de/en/Hirschmann_Produkte/Industrial_Ethernet/index.phtml

- ◆ Designed and implemented a complete hardware abstraction layer to integrate Level-7 software protocol stack to the Marvell xCat CPSS software development kit.
- ◆ Redesigned Marvell PSS driver responsible for programming TCAM (Policy Engine) in the bridge engine on xCat and Presteria DX/EX switches.
- ◆ Wrote a Pseudo DMA handler for non-managed Broadcom switches so that they could integrate fully into the Broadcom SDK.
- ◆ Developed other switching protocol components (Dot1Q/Spanning Tree).
- ◆ Optimized the Bridge flushing handlers.
- ◆ Implemented handlers and interrupt routines on VxWorks Real Time Operating System.

Resources: Broadcom SDK, C, Concept Design, Device Drivers, Eclipse, Embedded Programming, Hardware Debugging, Marvell cPSS, Marvell PSS, Network Bridge protocols, Network Programming, Problem Analysis, Real-Time Programming, Subversion, Systems programming, Team Leadership, VxWorks, Wind River Workbench, Windows 7

Software Engineer 6/2007 – 1/2008
Allianz Versicherung AG, Munich Germany

Alliance is Germany's largest insurance company. For this contract position, I was a staff Perl programmer. The platform was Linux based and used Object Oriented Perl with a Postgress Database and Mason for their auto insurance sales platform. My specific responsibility was the Business Logic Layer. Specific tasks were:

- Rate calculation module
- Unit Testing (selenium and Unit::Test)

Resources: Concept Design, Database Planning, Debian Linux, Eclipse, Mason, Perl, Problem Analysis, Selenium, SQL(Postgress), Subversion, Windows 7.