

# Andrew Sporner – Curriculum Vitae

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*Availability only in USA and Germany (regarding work permission)*

## ***Areas of Expertise:***

- Systems Programming
- Embedded Programming
- Databases
- Shell Scripting
- Systems Administration
- Network Programming
- Clustering
- 2<sup>nd</sup> / 3<sup>rd</sup> Level Support

## ***Programming Languages:***

- C
- COBOL (Microfocus Unix)
- Machine Language (Intel, MOS)
- Unix Shell (Bash, sh)
- SQL (Postgresql/Mysql)
- TCL/TK (since version 7.4/4.0)
- Perl (object oriented and function oriented)
- PHP-3

## ***Operating Systems:***

- FreeBSD, NetBSD
- Linux (Debian, RedHat, Suse)
- Solaris (9.x, 10.x)
- HP-UX (11.11)
- VxWorks
- Dynix/PTX
- Microsoft Windows (NT, 2K, XP)

## ***Education:***

1981- 1985      John Glenn High School, Walkerton Indiana, USA—Diploma  
1985 – 1990    Ancilla Domini College, Donaldson Indiana, USA – Diploma  
1991 – 1992    St. Procopius Abbey, Theological Studies  
1992 – 1993    Benedictine University  
1993            Internship at Fermi National Accelerator Laboratory

## **Work Experience:**

### **February 2008 – Present Hirschmann Automation and Control**

In this position I am responsible for the writing and optimization of device drivers in the VX works environment as it applies to switch drivers. This includes working in a team of 20-30 engineers and coming up with solutions in a collaborative manner.

### **June 2007 – January 2008 Allianz Versicherung AG**

In this position I was responsible for PERL programming in the Business Logic Layer of the Internet Sales Platform for auto insurance. The operating system was Debian Linux (Sarge) and involved working with a Postgres database.

### ***Feb 2007 – June 2007 T-Online International***

In this position I was responsible for maintaining the Apache configuration as well as keep patches for the CoreMedia Content Management System up to date. In addition I was responsible for the maintenance of the download center (softwareload.de). T-Online is a daughter component of the Deutsche Telekom and the largest Internet provider in Germany.

### **Oct 2006 – Nov 2006 Vodafone**

In this position I performed third level support (using Remedy) for a log file transfer utility. Additionally, I supported the staff with scripts (both shell and Perl) and assisted in various facets of automation including HP Openview

### **Aug 2006 – Oct 2006 T-Systems Stuttgart**

T-Systems is a daughter component of Deutsche Telekom and services large corporate networks. In this position I designed a network monitor consolidation system whereby all of the network management systems could be viewed centrally. This involved creating shell scripts that acted as client and server to contact the network management systems (which included HP Openview, IBM Netview and Cisco Works) to retrieve status and to configure new devices for monitoring by these various systems. The tasks involved in this was:

- Loading and configuring a primary and backup server (IBM server with Suse Linux Enterprise Edition)
- Install and configure a Mysql Database
- Create the Perl daemons for management
- create a monitoring website
- documentation and debugging

### ***Aug 2006 – Mar 2007 Diaserve Laboratories***

Diaserve produces Blood based and other diagnostic products. Their need was to create a tracking system so that in the event a blood bank notifies them that a sample might have HIV, they can trace down each product and subsequent product, hierarchically and locate everything in which this sample is a part of. This involved setting up a Mysql Database and writing the website in Perl CGI.

*(founding of Andrew Sporer Computer Consulting, a registered German business enterprise and transition from full-time salaried work to freelancer/contract work)*

### **Dec 2004 – Aug 2006 ITK Network**

I was hired by this company to fill a staffing need at T-Systems Nuremberg. In this assignment I was required to assess and implement an automation system so that twenty servers running HP-Openview could remain synchronised (max monitoring load was 3500 nodes under a 4-cpu HP 9000 server) as the targeted monitoring capacity would reach 60,000 nodes. I later suggested a better way and implemented a high-performance polling system that effectively replaced HP-Openview in their application needs. It needed 10 percent of the resources of Openview and monitored the complete network five times more frequently than Openview. This has since become the basis of their IPLS network management system (called NGNMS Next Generation Network Management System). Later I performed other duties for other ITK customers such as implementing a HI-AV FTP server based on my public domain clustering software ([www.bsdcluster.com](http://www.bsdcluster.com))

### **Feb 2001 – Oct 2004 Nentec Netzwerktechnologien GmbH**

In this position as software designer I was responsible for the development of a High-End load balancing switch. My responsibilities were:

- Concept and architecture of the product
- Feasibility Studies and Time Estimations
- Creation of the Prototype
- Technical Specifications
- Design of an Embedded system based on FreeBSD (8 MB image bootable from flash)

- Design of a bootstrap loader that could fail-back in the event of a failed upgrade.
- Design and development of a device driver for GalNet crossbars and switches.
- Development of a watchdog driver
- Development of an Embedded TCP Stack (2400 lines C code) for verify module.
- Concept and development of Hi-AV option based on Cisco Fast Etherchannels.
- Web Configuration design.
- Design of interfaces between kernel and user space
- Documentation and code reviews
- Diagnostic functions development.

### **Sept 1998 – Jan 2001 Network Engines Corporation**

As Systems Architect, I was one of the founding software engineers and was responsible for load balancing and diagnostics of the webengine family of servers. Later I was responsible for automated installation based on Intel PXE and created an embedded version of the BSDI operating system for the Storage Engine.

### **April 1996 – Sept 1998 Walgreen Company**

Walgreens is a drug store chain with over 3000 stores across the USA. I was hired for my experience in Sequent clusters and to help optimize an Anderson Consulting written pharmacy application. This involved the following:

- Design and planning of an Oracle Database (OPS) on Sequent Platform. This included specifying hardware and budget estimations.
- Creating software that allows Unix Batch jobs to be scheduled from the IBM VM/ESA mainframe. Subsequently managed the implementation and roll-out.
- Writing a communications driver that allows the cash registers to record sales of prescriptions into the Pharmacy Application. This increased the reliability of the system significantly and in recognition of this and the fast deployment I received a special commendation from Mr. Joyce, secretary of the Walgreen Company, at a special luncheon.
- Optimizing Tuxedo Services.
- Acting as resident expert on TCP/IP and Unix Core Dumps.
- Overhauling the build environment for the Pharmacy application, which had grown into a collection of mostly incompatible scripts producing unpredictable build results.
- Actively participating in SWAT meetings whereby failures could be quickly identified and corrected.

### **May 1993 – April 1996 Hyatt Hotels Corporation**

In this position I was responsible as systems architect in various design and implementation aspects around the Spirit Reservation System. This involved also a complete migration of the data center from six different Vendors onto the new Sequent Cluster. I created an improved failover package that improved the up-time of the application as well as implemented an application access system based on the Telnet protocol where the agents needed only to supply the application and a broker did the necessary work to locate where on the cluster the application was running.

### **September 1985 – May 1993 Diverse Projects**

During this time period I undertook many small projects involving data migration, application development and systems management. This involved IBM midrange systems, COBOL under Unix, and microprocessor BIOS development. Some of these positions were full time and others were part-time while going to college.

### ***Hobbies:***

- drummer in a Bavarian Music Group
- Restoring classic cars
- Antique Radio and TV restoration
- Building Home-brew Audio Amplifiers.
- Licenced Radio Amateur in the USA (call sign KG4VKK).