

## **BRIAN P. BILBREY**

### **TITLES:**

Senior Network Engineer  
Systems Engineer  
Lead Systems Administrator

### **PROFESSIONAL SUMMARY:**

Thirty five years of increasing responsibility in Network and Computer Engineering and Administration. Currently involved in a position that permits developing and using exceptional systems, networking, security, and user support skills. Systems integrator with expert experience in Unix/Linux systems. Wide-ranging expertise in network design and implementation. Served as a principal for several complex network design and system upgrade projects.

### **CREDENTIALS, TECHNICAL CAPABILITIES AND LICENSES:**

#### ***Operating Systems:***

Red Hat Enterprise Linux (RHCE, RHCSA, RHCSAA) Linux Server and Workstation configurations and distributions, including Red Hat, Ubuntu, CentOS, and others. Experience with MS Windows Workstation and Server Operating Systems, managing administration of file, print and application servers. Virtualization toolsets include SAN management, VMware, Veeam. Additional SEIM experience with Splunk for both log aggregation and alerting.

***Virtualization:*** VMware, KVM

***Languages:*** C, Perl, Shell

***Networking:*** Cisco IOS

***Software:*** Includes: Sendmail, Postfix, BIND (DNS), IMAP/POP servers, Apache, mod\_ssl, mod\_perl, PHP; Installation and configuration of OpenBSD servers for public-facing applications including mail, web, routing, and firewall applications. Includes configuring PF rulesets to manage access to a complex DMZ/internal/VPN/Guest-worker environment.

***Hardware:*** Intel x86 / SMP, AMD, AMD-64, SUN Workstations, SUN Servers, Dell Servers, SonicWALL Firewalls, Cisco routers, switches, Dell PowerConnect switches, hardware configurations for Linux, Solaris and Windows

***Security:*** Experience in securing Linux computers using IPTables/IPChains, Portsentry, Tripwire, and Logcheck. Network monitoring tools include nmap, Nessus and Ethereal. Monitoring aggregation and analysis systems such as Splunk and WhatsUp.

## CERTIFICATIONS

- Red Hat Certified Engineer (RHCE), #140-144-569, exp 04/2020
- Red Hat Certified Systems Administrator, #140-144-569, exp 04/2020
- Red Hat Certified Specialist in Ansible Administration, #140-144-569, exp 04/2020
- Check Point Certified Systems Engineer, 2008.

## EDUCATIONAL BACKGROUND:

BS, Computer Information Technology, Summa Cum Laude,  
University of Maryland University College, 2012

## PROFESSIONAL EXPERIENCE:

### **Dynaxys LLC, Silver Spring, MD**

**May, 2007 to present**

#### **Position: Lead Systems Administrator.**

Primary duties include UNIX systems maintenance and configuration: patching and implementing software systems for RHEL and Solaris 10 systems. On-Call rotation member. Additional responsibilities include remote disaster recovery site, networking, SAN, and Private Cloud environment.

### **Chaos Manor Reviews**

**July, 2006 to December 2015**

#### **Position: Managing Editor, site design.**

I worked with Dr. Jerry Pournelle to bring his computer columns to this new venue when his long relationship with Byte ended. Included preview, edit, format and publishing his column and mail-bag.

### **Check Point Software, Rockville, MD**

**October, 2004 to May, 2007**

**(Formerly NFR Security, Inc., until purchased by Checkpoint on 1/1/2007)**

#### **Position: Senior Systems Administrator**

Duties included hardware, OS, and applications support for Sales and Execs on Windows platforms, and for the Engineering group that mostly used anything but Windows. Managed, maintained, upgraded servers for internal and external use, primarily Debian Linux and OpenBSD. Windows SBS 2003 w/Exchange Server was also in play, behind a VPN gateway. Corporate encrypted offsite backup process implemented and successful.

### **The NERDS Group, LLC, Silver Spring, MD**

**August 2002 to October 2004**

#### **Position: IT Consultancy position**

As a full time employee, I had responsibility for systems and networks with a number of local businesses, as well as 2 to 3 days a week providing service for the Montgomery County DPWT Traffic Management Center, working with a complex setup comprised of Solaris, Linux and Windows systems in an assortment of clients, servers and middleware. Was instrumental in the design and implementation of the new TMC network in the PSCC, Gaithersburg. As a consultant, served on the design team for the TSSM, assisting in evaluating hardware, software, and network design for the network that supports the Montgomery County DOT signal network modernization.

**Energy Transformation Systems Inc., Newark, CA**                      **September 1997 to August 2002**  
**Positions: IS/Web/Product Engineering**

(Continuing to the present day: occasional consulting in web design and remote administration)  
My duties began with administration of a small heterogeneous network including NT4.0 and Linux servers with Windows and Linux clients. My responsibilities encompassed applications, backup, connectivity, system maintenance/upgrades (HW & SW, license compliance), web design, updating, and statistics. My other jobs within the company included PCB and product design, engineering documentation, electronic and camera ready art and copy for Marketing/Sales support including brochures and advertisements, I was also a member of the management team, working for President Jack Andresen.

**A-Squared Electronics, San Jose, CA,**                                      **November 1990 to September 1997**  
**Positions: Shop Manager, Training Coordinator**

I was responsible for oversight of production personnel, training and quality control. I performed production, scheduling, sales and customer service duties. I managed a front office staff of four, production staff varying, up to 35. Also I worked on PCB design and co-engineering projects at this consignment PCB/EM assembly house. Additionally, I setup the first in-house network. Teaching new skills to people was the best part of this job.

**Nellcor Inc., Hayward, CA**    **April 1983 to August 1990**  
**Positions: Associate Engineer / Product Design Engineer**

I worked in an engineering project matrix environment, providing PCB and product design services over several product lines. I coded a clinical evaluation software test suite as a 6-month project, written in C. I brought CAD into the engineering department, and designed sensors and associated equipment for the line of Pulse Oximeters.

#### **ADDITIONAL PROJECTS**

Authored Caldera OpenLinux Secrets with Tom Syroid, completed in December 2000 at approximately 1000 pages. The book is now available online at <http://linuxbook.orbdesigns.com/>. Also, I've written three tutorials for [IBM DeveloperWorks](#).