

## Howard Powell

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**EDUCATION**      *Bachelor of Arts*      University of Virginia      1998 - 2005

**WORK EXPERIENCE**      *System Administrator*      2012 - Present  
Lighthouse Instruments

- Planned and implemented an Asterisk PBX VOIP solution.
- Developed a Samba 4-based Active directory domain for 60 computers
- Developed and maintain PF-based firewall on OpenBSD (500+ rules)

*System Administrator*      2012  
Music Today

- Documented multiple music-oriented merchandise and ticketing platforms.
- Implemented a Phone-Factor authentication system to meet PCI standards.
- Reverse-engineered with zero downtime a LAMP ticketing platform that all documentation, including passwords, had been lost.

*Consultant*      2011 - 2012  
Lighthouse Instruments

- Provided advice and assisted with tuning a mixed computing environment to best suit a small company's IT needs.
- Deployed a FreeBSD solution tuned for high performance Samba services.
- Developed ZFS based strategies for daily and offsite backups.

*Unix Computer Administrator*      2002 - 2012  
Astronomy Department, University of Virginia

- Provided Tier 3 and network engineering support to an academic and research oriented department.
- Customized a unattended deployment system for both Redhat Linux and Windows XP/7 clients.
- Developed and maintained a 576 processor Linux based parallel HPC cluster.
- Planned and implemented an LDAP database, including the migration of NIS user tables and integrated various services into LDAP structure.
- Developed and maintain various servers including email (Postfix), web (Apache), and directory services (OpenLDAP).

*Computer Help Desk*      1998 - 2002  
Information, Technology and Communications, University of Virginia

- Provided Tier 1 and Tier 2 IT support by phone support covering all types of problems with personal computers on a variety of Windows (95, 98, NT, 2000 and XP), Unix and Macintosh based computers.

**Publications**      **Powell, H.** (2011). How to Build a Beowulf HPC System Using the FedoraLiveCD Project. Linux Journal, issue 208, pages 64-68.

**Powell, H.** (2012). ZFS and Btrfs: A Quick Introduction to Modern Filesystems. Linux Journal, issue 218, pages 104-111.