

# Patrick W. Barnes

**Systems Architect**  
Security & Reliability Engineer

## Objective

To be an exemplary maker and maintainer of computer technology and systems; to exercise skills in technology, research, service and education for the advancement of technology to the benefit of humankind, and to earn a fair profit for my employer and myself in return.

## Summary

Over a decade of experience as a developer and an administrator of computer technology, including Linux and Windows servers and networks. Focused on security, reliability and a philosophy of "do it once, do it right". A jack-of-all-trades with technology, specializing in Linux and open source technologies and open standards, combining extensive experience in all sizes of networks with a quick learning ability and strong attention to the technology industry.

## Current Focus

My current focus is on the maintenance of a small datacenter and on the infrastructure of the small and medium-sized businesses that make up my employer's client list. This includes extensive use of virtualization, clustering and centralized management technologies. Key technologies used for these include:

- Fedora
- CentOS
- Windows Server
- libvirt
- qemu+kvm
- Ceph
- SaltStack
- Puppet
- Kickstart
- Samba 4
- Nagios

While I do possess development skills, I do not consider myself a developer by trade. My development skills are regularly applied to maintaining, debugging and integrating existing software; automation and scripting; and to creating simple single-purpose tools.

## Skills

I have a broad set of skills covering several aspects of technology. These skills include:

- Administration of many server technologies, every major platform, particularly:
  - Linux: Fedora, Red Hat Enterprise Linux, Debian and derivatives
  - Windows: All versions, including Windows Server 2012 R2
    - Domain environments, Active Directory, Microsoft SQL Server, Exchange
- Security: perimeter and internal defense of IPv4 & IPv6 networks, anti-malware, hardening, analysis, secure coding, rapid response and prevention, responsible disclosure, forensics, public key cryptography and secure TLS implementation
- Maintenance of mission-critical systems and applications
- Planning, design and implementation of networks for SMBs
- Monitoring and analytics of systems, networks and user behavior
- Web and application development, revision control, documentation, packaging, deployment and provisioning
  - (X)HTML, CSS, JavaScript, XML, XSLT
  - C, Java, Python, PHP, Perl, shell scripting, SQL
  - Subversion, CVS, GIT
  - Automated building, distribution, RPM packaging
- Document management, authoring, processing and prepress

### Address

5805 Bell Park  
Amarillo, TX 79109-5731  
United States

### Telephone

+1-866-654-6891

### Email

patrick@patrickwbarnes.com

### Website

<https://patrickwbarnes.com/>

*Links to assorted profiles and feeds are available on my website.*

- Asset, inventory, intellectual property management, licensing and compliance
- Focus on standards, interoperability, long-term maintainability
- Graphic design: 3D, vector, raster, animation and video, prepress
- Experienced leader and team worker, including in a geographically distributed team

## Work History

2012-04 to Current: Systems/Network Architect & Software Developer, Technical Solutions | [logicaltechnologies.com](http://logicaltechnologies.com)

**Duties:** [Systems Administration](#) | [Network Administration](#) | [Software Development](#) | [Infrastructure Development](#)

**Accomplishments:** **Designed** and implemented new virtual machine hosting infrastructure built around libvirt and Ceph. **Revamped** documentation practices. **Created** a new solution for heterogeneous network management, providing directory services, Kerberos authentication, centralized configuration management and other realm services for mixed systems. **Overhauled** security posture, reducing attack surface, cleaning up network and locking down access. **Developed** all-new version of *SecureTrans* software used by pharmacies nation-wide for secure communication of insurance claim data.

2004 to Current: Senior Community Contributor (Volunteer), Fedora Project | [fedoraproject.org](http://fedoraproject.org)

**Duties:** [Management and Coordination of assorted projects and teams](#) | [Web Site Design](#) | [Documentation](#) | [Infrastructure Development](#)

**Accomplishments:** **Reformed** developer wiki from a small collection of notes to a key resource for all users and developers, leading to its promotion to the Fedora Project home page. **Assisted** in the formation of several major projects, including Fedora Marketing, Fedora Ambassadors, Fedora Women, Fedora Distribution, and Fedora Infrastructure. **Served** on the Fedora Ambassadors Steering Committee for two terms, acted as lead or co-lead on several other projects. **Managed** many of Fedora's IRC channels and mailing lists. **Led** Fedora's participation in Google's Summer of Code from 2006 through 2009. **Completed** all work remotely, collaborating mostly through email lists, IRC and some VoIP.

2011-03 to 2012-04: Software Developer & Systems Administrator, Enviro-Ag Engineering | [enviroag.com](http://enviroag.com)

**Duties:** [Web Application Development](#) | [Systems Administration](#) | [Network Administration](#)

**Accomplishments:** **Introduced** proper revision control and release engineering to development processes. **Built** virtualized server solutions to modernize the company's infrastructure. **Deployed** more stable and secure VPN solution to support distributed offices and remote workers. **Developed** new compliance management web application for client use.

2006-08 to 2011-03: Systems Administrator, cat-man-du, Inc. | [cat-man-du.com](http://cat-man-du.com)

**Duties:** [Systems Administration](#) | [Network Administration](#) | [Consulting](#) | [Security Research and Defense Development](#) | [Web Application Development](#) | [Website Design](#) | [Corporate and End-User Support](#)

**Accomplishments:** **Wrote** new company website and portal, vastly extending the company's relationship management software and streamlining business processes. **Migrated** all servers to modern Linux systems. **Introduced** a number of company-wide communications systems for voice, instant messaging and content delivery. **Crafted** solutions to make all technology resources available to all offices, eliminating the need for unreliable VPN-based solutions used before. **Developed** new tools and procedures in support of the company's service offerings. **Drafted** important business documents, including agreements and company policies. **Produced** documentation for the technologies and procedures in use throughout the company. **Ensured** we were frequently among the first to develop solutions to emerging threats and technology issues. **Achieved** finalist rank as a company in the Better Business Bureau of the Texas Panhandle's Torch Award for Marketplace Ethics, 2006 and 2009, and winner in 2010.

2004-08 to 2006-05: Systems Administrator, CTL Technologies

2003-03 to 2004-08: Assistant Store Manager / Floating Store Manager, Dollar General

...

*Details for older positions and for freelance work available upon request.*

## Education

I possess an Associate's degree in Business Administration with a concentration in Information Technology from AIU, 2011.

## Recommendations and References

I prefer to share recommendations and references through LinkedIn for convenience for my friends and colleagues.

- <http://www.linkedin.com/in/patrickwbarnes>

