

# Martin Walsh

## Linux System Administrator

Evanston, IL 60202  
✉ [mwalsh@mwalsh.org](mailto:mwalsh@mwalsh.org)

### Objective

Seeking a challenging, and multifaceted, system administration position requiring the creative application of open source technology.

### Professional Experience

2005–Present **System Administrator**, *Parity Systems*, Evanston, Illinois.

Responsible for the installation, maintenance and documentation of all hardware and network services for use by internal staff and clients. Closely supported the development efforts of all web projects; configuring, deploying, and securing hosting environments/web stack.

Notable achievements:

- ★ Implemented a comprehensive network monitoring and performance graphing solution (nagios, Python/Jython, Java, rrdtool).
  - Programmed more than 20 custom checks for unusual hardware and services.
  - Created a utility framework for rapid development of new service checks.
- ★ Developed a 1-wire based server room, climate sensor network and monitoring solution for less than \$100 (owfs, nagios, Python).
- ★ Evaluated several free and/or open source virtualization management technologies (VMware-server, ESXi, KVM/libvirt, oVirt, ganeti, Proxmox)
- ★ Assembled a Debian-based USB/LiveDVD disaster recovery environment (dnsmasq, pxe, clonezilla, dokuwiki, subversion, puppet).
- ★ Built an OpenOffice.org/LibreOffice headless Live CD-ROM image to provide scalable ODT to PDF conversion services to internally hosted Java web applications (BartPE, LibreOffice, OOoServer, KVM/Proxmox).

2000–2005 **IT Manager**, *RS Industrial*, Buford, Georgia.

Provided corporate leadership and manpower for all IT initiatives.

Notable achievements:

- ★ Supervised the development of, both industrial and retail, e-commerce websites (Java, Apache Tomcat, Python, Zope).
  - Contributed Java code to integrate with credit card, payment gateway service.
  - Developed a custom Zope "Product" to facilitate content updates by non-technical staff.
- ★ Cooperated in planning and oversight of the construction of a second building/location, including the design and installation of combined network.
- ★ Designed and developed automated reports based on sales and inventory data (MS Excel/VBA, MS SQL Server, Python).
- ★ Implemented a voice call notification system (nagios, festival, Python, xmllrpc, pyserial, Hayes command set)
- ★ Researched, recommended and purchased new technology for the entire organization.

### Key Skills

Systems	Linux (Debian, RHEL), Windows (all variants), iSeries AS/400, OpenBSD, Solaris
Network	Apache, Apache Tomcat, ActiveMQ, Postfix, Sendmail, Courier, Dovecot, OpenVPN, OpenSSH, Samba, OpenLDAP, BIND, ISC DHCP, CUPS, netfilter/iptables, pf, OSSEC
Databases	PostgreSQL, MySQL, CouchDB/Couchbase, OS/400 DB2
Languages	Python, bash (fluent), Java, Ruby, PHP (moderate), Perl, C (novice)