

# Robert J. Bubon

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## PROFESSIONAL QUALIFICATIONS

Strong leadership skills and unsurpassed customer service; dedicated, positive, team-oriented attitude Proven leadership and success in highly visible roles. Demonstrated abilities in: enterprise wide system design and administration, network integration, software implementation and project management, current with hardware and software management technologies.

## CORE SKILLS

<b>Unix</b>	Linux (Variants), OSX, Solaris, FreeBSD, AIX, HP-UX, BSDI, IRIX, Xen
<b>Microsoft</b>	Microsoft Server, Active Directory, Windows 7, Windows 8, Dynamic DNS, DHCP, Remote Desktop, WINS, Exchange
<b>SAN, iSCSI</b>	JetStor RAID's, Pillar Axioms, Sun A5000 Storage Arrays, Hitachi 5700E Disk Arrays, JBOD's, Fibre Channel Multi-pathing, Various SAN Switches from (EMC, Brocade, McData, Qlogic, Cisco), Qlogic and Emulex HBAs
<b>Storage</b>	Network Appliance, ZFS, Solaris DiskSuite, Veritas Foundation, MD, LVM, RAID, SCSI, SATA, NAS, NFS, AFS, DFS, CIFS, Samba
<b>Network</b>	Various Cisco and Foundry Routers, Switches, Terminal Servers, PIX's, and VPN Servers
<b>Firewalls</b>	Cisco PIX, VPN and ASA, WatchGuard, Sonic Wall, Netgear, Linksys, Dlink, tcp-wrappers, IPTables, ipfirewall, ipfw, TIS & Socks Proxy
<b>Antivirus</b>	Symantec Endpoint Protection, System Center Endpoint Protection, Sophos, McAfee, Stinger, Secunia PSI, FileHippo, CCleaner
<b>Protocols</b>	ATM, IP, BGP, OSPF, IGRP, EIGRP, HSRP, SIP, SLIP, PPP, Novell (Netware), AppleTalk, X.25, SNMP, LDAP, RMON, NFS, UUCP, SSL, PPTP, NAT, DHCP, D/DNS, NetBIOS, PXEBoot, 10/100/1000BT, 10G 802.11a/b/g/n, FDDI, OC3, DS3, T1, DSL, DS0, ISDN, RS232, Wake-on-LAN
<b>Languages</b>	C, Perl, PHP, JavaScript, Unix Shells, Tcl/Tk, Expect, Pascal, Basic, Fortran, MC68K asm, GNU Debugger
<b>Databases</b>	MySQL, Multi-Master Replication Master for MySQL, PostgreSQL, Oracle, BerkeleyDB, phpMyAdmin, phpMyEdit, SQL Programming
<b>Web</b>	Apache, Tomcat, Weblogic, FrontPage, ColdFusion, PHP, Perl CGI, HTTP, HTML, AJAX
<b>Mail</b>	Sendmail, Postfix, Squirrel Mail, Mailman, Imaps (dovecot), Thunderbird, Gmail, MailScanner, Spam Assassin, dnsbl (Spamcop), F-prot AntiVirus, Vipul's Razor, SASL, SMTP, Exchange, Outlook, OpenWebMail,
<b>Software</b>	Pacemaker, Radius, Nagios, Orca, Jumpstart, Kickstart, PXE, Clonezilla, Bugzilla, Puppet, Subversion, RCS, CVS, Xming, Cygwin, Tripwire, VMWare ESX, VirtualBox, OpenLDAP, SecureID, Skey, SSH, FTP, SFTP, Kerberos, VNC, Snort, WUInstall, Unidata Local Data Manager, (LDM), Remote Audit Tool, Bugzilla, Eclipse
<b>Microcontrollers</b>	IoT, 3D printing, Arduino, Atmega, PICAXE, I2C, SPI, I-Wire Devices, Various Environmental Sensors, CadSoft Eagle Professional

## PROFESSIONAL EXPERIENCE

**University Corporation for Atmospheric Research** September 2008 – Present

### **Senior Systems Administrator – Infrastructure Architect for the COMET Program**

- Architect, deploy and maintain the MetEd infrastructure which provides education and training resources to 500,000+ registered users. See <http://meted.ucar.edu>
- Architect, deploy and support the IEPAS/RANET infrastructure that is providing world wide climate related services. See <http://www.iepas.ucar.edu>
- Collaborate and coordinate the creation and support of services with UCAR/NCAR, NOAA, Pacific Tsunami Warning Center, Pacific International Training Desk operated by University of Hawaii, Werner Labs, GEONETCast, and WMO.
- Maintain high levels of uptime for the MetEd and COMET Unix/Linux infrastructures.
- Architect, deploy and maintain complex high-availability Unix/Linux infrastructures for database, file and web servers, as well as business continuity.
- Conceive, architect, code, deploy and maintain infrastructure tools, services and monitors.
- Architect and maintain databases and associated applications.
- Conceive of, design, and implement software solutions to automate system administration tasks, to solve underlying network problems, and to respond to staff requests for computing solutions using expert judgment to determine the appropriate programming languages and services for each requirement.
- Provide software development and engineering for MetEd and associated services, as well as sponsor funded projects.
- Support all levels of COMET's IT services and infrastructure.
- Support NOAA's AWIPS deployment at UCAR. AWIPS is the weather information system used at NWS forecast offices.
- Coaching · Project management · Collaborating and working closely with other technical groups across the organization.

**Pillar Data Systems** August 2004 – June 2008 (Acquired by Oracle June 2011)

### **Senior Lab Engineer – Tools Development & Automation** February 2005 – June 2008

- Lead Architect and driving force behind the deployment of Pillar's lab infrastructure, services and culture for a multi-state lab environment of over 280 racks of equipment.
- Software Developer, Web Master, MySQL DBA, System Administrator, Network Engineer, SAN Administrator.
- Continual process improvements with continuous integration methodology for our LAMP & AJAX based software services and tools.
- APIs and GUIs created most noticeably for power automation services, lab reservations, lab configurations used in Regression and Test automation groups.
- Created and maintained authentication services, inventory and rma tracking, monitoring, alarming and trending services, help desk.
- Deployed backups and business continuity site fail-over for lab services.
- Maintained high levels of up time for the Engineering user community.

**Senior Test Engineer – Functional Test Group** August 2004 – February 2005

- Designed developed and executed tests cases for Scenario Testing with fault injection.

## **PROFESSIONAL EXPERIENCE CONTINUED**

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### **Bolder Internet Group, Inc.** March 1999 – August 2008 *Founder and President*

BigI performs consulting, design, administration, project management and programming services.

#### **I-Behavior** July 2008 – August 2008

- Moved East coast VPN connection (via Cisco ASA 5200s) to 100Mbit-dedicated circuit.
- Configured ASA 5200 Remote Access VPN to use Active Directory and Member Of for AAA.
- Analysis support on performance issues related to an Oracle Linux server and an EMC CX-320.

#### **Short Duration Contracts** June 2001 – October 2002 & April 2004 – July 2004

· SoftSource Corporation · Neotool Development · Aegis Analytical · Novus Development · StarPrecision

#### **Research Systems a Kodak Company** June 2003 – March 2004

- Requested to come back to group and help put into place an IT infrastructure for the next 3 to 5 years.
- Rebuilt UNIX core infrastructure and Installed Gigabit backbone switch Catalyst 4507R to 14 Catalyst 3524XLs and 2 NetApps.
- Migrated Windows NT 4.0 environment to Active Directory and moved Unix NIS environment to SFU.

#### **Denver Museum of Nature and Science** October 2002 – June 2003

- Designed and installed Cisco based network solution for the museum backbone and **Space Odyssey** exhibit.
- 525 PIX firewall, 4507 and 3550 Layer 2-4 switches, 3005 VPN, Aironet 1100,1200 WAPs.
- Unix infrastructure of DNS, NTP, Syslog, Apache, Sendmail, Tftp, SSH, Backups on Redhat Linux 1U servers.

#### **Requisite Technology, Inc.** April 2000 – June 2001

- Stabilized, expanded, supported, and documented UNIX/Network non/production environments in 4 countries.
- Developed LAMP/LDAP authentication infrastructure for Internet web service offerings.
- Developed UNIX C based HTTP Redirector software for corporate E-business offerings.

### **Research Systems, Inc.** June 1999 – April 2000 *Sr. Systems & Network Admin*

- Performed engineering and support functions for the UNIX, network and Windows/NT environment.
- Migrated company to new Cisco network hardware and NAT firewall solution.
- Rebuilt UNIX mail and DNS environment to be a redundant hardware and software solution.
- Installed Watchguard's Firebox II for VPN (IPSEC) to DC and UK offices. With Mobile User VPN support.

### **Information Graphics Systems (Formally Bolder Heuristics, Inc.)** August 1997 – March 1999

#### *Sr. Systems & Network Manager*

- Responsible for company network, Internet, UNIX and Oracle services.
- Merged Information Graphics Systems computing environment with that of Bolder Heuristics.
- Deployed Network Appliance file server.
- Supported NT Server and Microsoft desktop environment.

### **U S West Regional Bell Operating Company** July 1992 – August 1997

#### *Sr. MTS - Network Engineer – Team Lead Media Group* May 1995 – Aug 1997

- Tier 3 support for Internet and Intra-net services across the multi-division organization.
- Designed, built and supported a Cisco ATM DS3 based Internet gateway.
- Deployed infrastructure services over the corporate multi-state network.

#### *MTS - Network Engineer Advanced Technologies* July 1992 – May 1995

- Responsible for the WAN and LAN networks at the Boulder Technologies research site.
- Maintained U S West's Public Internet Gateway and services that was use by the entire corporation.
- Postmaster, DNS Administrator, Usenet Administrator, Web Master, Security Administrator.

### **Iowa State University** May 1989 – July 1992 *Telecom Data Systems Manager*

- Responsible for engineering and maintaining the Campus backbone and building networks.
- Administered UNIX systems that supported the AT&T phone switch and billing systems.

### **Voice Response, Inc.** June 1987 – May 1989 *Software Engineer*

- Performed systems programming and full life cycle duties on Voice Response product using C and Microware OS9.

## **EDUCATION**

BS, Computer Science, Iowa State University, May 1987

## **ADDITIONAL INFORMATION**

Salary requirements and references available upon request.