

Joshua A. Myles

23714 Woodside Lane • Hancock, MI 49930 • 906-487-7056 • josh@feep.org

Work Experience

Michigan Technological University, January 2002 to present

System Administrator/Manager, Department of Geological and Mining Engineering and Sciences

- Design, research, develop, and deploy hardware and software systems to support the diverse and stringent needs of instructional and research computing. This includes: high-performance, redundant, secure network servers; robust backup and restore services, including periodic data archival; powerful, usable workstations for computationally-intensive data modeling, visualization, and analysis; and high-quality network printing equipment, including large-format printing.
- Deploy and maintain software on Sun Solaris, Microsoft Windows, and Mac OS X workstations, including enterprise-class data processing and visualization suites (such as Landmark OpenWorks, Schlumberger GeoFrame, Jason Geoscience Workbench, and PCI Geomatica, among others), programming environments, instructional software, and basic computing packages. Modify and integrate applications as necessary.
- Manage instructional computing budget, including budget planning, purchasing, and assisting in research computing budgeting.
- Automate monitoring of critical services, usage statistics generation, user account maintenance, configuration management, and other common system administration tasks.
- Generate thorough documentation for deployed systems, as well as printed and web-based user documentation covering software, hardware, and computing policies.
- Provide face-to-face, phone, and email support to 160 users including faculty, staff, and students in Geological and Mining Engineering and Sciences and the Remote Sensing Institute, an interdisciplinary research institute. Work directly with research groups to solve specific problems.
- Manage computing support personnel. Recruit, hire, train, and supervise student employees. Coordinate and manage long- and short-term projects. Prioritize projects and support requests.
- Coordinate work with other groups on campus, and work with other system administrators and IT staff in developing emerging technologies and campus standards.

Michigan Technological University, June 2001 to January 2002

System Administrator, Department of Chemistry

- Planned and executed transition from existing Chemical Engineering/Chemistry network to independent Chemistry network.
- Coordinated installation of network and electrical facilities in new computer lab and server room.
- Ordered, installed, and deployed Solaris and Windows NT servers providing network services including NFS, NIS, SMB/CIFS, POP, IMAP, DNS, DHCP, LPD, HTTP, FTP, AFP/PAP, Windows Terminal Services, and Windows NT Domain services to Solaris, Windows, and Mac OS clients.
- Deployed Sun Ray server and installed clients in computer lab and office settings.
- Deployed workstations for computer lab and office use, including x86 PCs and Sun workstations.
- Supported 120 users including faculty, staff, and students.
- Generated custom system administration tools, including custom JumpStart configuration and user account administration tools.

Michigan Technological University, May 2000 to June 2001

ME-EM Computing Support

- Deployed and maintained Windows NT 4.0 Terminal Servers for undergraduate and graduate student use, including Citrix MetaFrame and a wide variety of application software.
- Deployed and maintained Samba as a PDC, including NIS synchronization and custom passwd and adduser scripts.
- Deployed and maintained Windows NT 4.0 Workstations for student lab use, including configuration for use with Samba, NIS, and TCP/IP printing.
- Installed, upgraded, and maintained hardware including Sun workstations, x86 PCs, and Sun Rays.
- Supported users (faculty, staff, students, and lab assistants) both directly and via email.

Prior engineering experience details available by request.

Technical Skills

Operating Systems

UNIX (Sun Solaris 7-9, FreeBSD, Mac OS X, Linux), Microsoft Windows (NT 4.0, 2000, XP, 95/98/ME), Microsoft Windows Server (NT 4.0, 2003), Mac OS 8-9

Software

Samba, Apache, Oracle Database, Sun Ray Server Software, Veritas NetBackup, MySQL, Postfix, LPRng, Nagios, Request Tracker, Citrix MetaFrame, Windows Terminal Services, and a large number of UNIX and Windows services, applications, and utilities

Hardware

Sun SPARC workstations and entry-level servers, x86 PCs and servers, tape libraries, storage arrays

Languages

Perl, C, C++, Fortran 90, shell programming (Bourne and C shell), HTML

Education

Michigan Technological University, August 1997 to present

Current double major student, seeking B.S. in Mechanical Engineering and B.S. in Computer Science. BSME complete Fall 2004 or earlier, BSCS complete shortly thereafter. Overall GPA: 3.2.