

## Michael J. O'Connor

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### OBJECTIVE

To utilize proven networking and systems skills for a world-class innovative organization.

### QUALIFICATIONS

- A dozen years of experience in systems integration and troubleshooting, emphasizing functionality, standards, and quality.
- Systems and network design skills applicable toward research, commercial, and academic organizations, from small businesses to Fortune 500 corporations.
- Expertise in UNIX, TCP/IP networking, programming, and NT.
- Patient and diplomatic, with a passion for helping others toward success.

### EDUCATION

B.S. Computer Engineering program, Oakland University · Rochester, MI

### EMPLOYMENT

Silicon Graphics, Inc. · *Member of Technical Staff* · Farmington Hills, MI · March, 1997 - Current

- Debugged mission-critical network performance, functionality, and interoperability issues with IRIX, Linux, UNICOS and NT products, involving assorted interconnect technologies (gigabit ethernet, FDDI, HIPPI, ATM, token ring, X.25, serial/parallel ports), protocols (TCP/IP, NFS/NIS and other Sun ONC RPC services, SMTP, SNMP, DHCP, LDAP, DNS, FTP, HTTP, PPP, ISDN, LPD, RIP, SMB, DCE and DFS, etc.) and surrounding infrastructure (Cisco and other vendors' switches/routers/hubs/NICs, Solaris and NT and other host equipment, third-party peripherals/drivers, etc.).
- Helped manage many of SGI's extranet services (Usenet, FTP, mail, many WWW servers, firewalls, DNS, routing, etc.). Helped manage assorted intranet services, notably helping with integrating Cray Research, Inc.'s intranet into SGI's despite conflicting network architectures.
- Wrote and instrumented sh/ksh/perl/C code, and examined network protocol traces, kernel crash dumps, core dumps, and firmware traces to demonstrate/diagnose/solve problems and perform monitoring/tuning.
- Widely regarded as mentor for sales, support, systems and network administration, engineering, and marketing on networking matters. Wrote and reviewed networking articles for SGI Pipeline, an external technical publication, and generated numerous internal technical notes.
- Went onsite to many Fortune 500, government and other customer sites to perform consulting (configuring firewalls, performance tuning, customer training) and to solve escalated problems relating to networking and other aspects of systems operability.
- Helped deal with numerous network security issues involving SGI products and SGI itself.

Altair Engineering, Inc. · *Senior Systems/Network Engineer* · Troy, MI · December, 1994 - February, 1997

- Administered a 250-node heterogeneous network architected for engineering analysis and software development, providing hardware and operating system support for IRIX, HP-UX, UNICOS, Solaris, SunOS, OSF/1, AIX, NT, Auspex, Netapp, and Win9x servers and workstations, along with Cisco, Fore, and Livingston network gear, assorted printers, and engineering test equipment.
- Installed and deployed software packages for facilitating engineering analysis (SDRC I-DEAS, NASTRAN, Hypermesh, Powerview, etc.), software development (RCS, GNU utilities, compilers/debuggers), and effective use of our intranet and Internet (DNS, sendmail, custom firewall, SAMBA, SNMP, various WWW servers, etc.).
- Wrote and debugged sh/csh/perl/CGI scripts and C and FORTRAN code for tuning network performance, adding failsafe mechanisms, and other tasks as necessary.
- Facilitated secure and useful TCP/IP connectivity to the Internet, international offices, suppliers, and customers such as Chrysler and Ford Motor Company via DS1, ISDN, and dialup PPP.
- Trained users and administrators in effective use of Internet technologies in a classroom setting, and educated our software support group and Altair's customer base with diagnosing systems administration issues pertaining to our software products.
- Spearheaded the expansion of Altair's onsite services business into the systems arena, and oversaw several contractors performing systems administration onsite at Ford.

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### EMPLOYMENT (*Continued*)

General Motors Corporation · *Consultant* · Warren, MI · August, 1994 - November, 1994

- Assisted in the deployment and maintenance of a 500-node heterogeneous UNIX network for GM's Mid-Sized Car division.
- Streamlined their AIX compute and file server cluster, making it more productive for users.
- Evaluated Netview/6000, HP Openview, and other network monitoring products.
- Trained EDS systems administrators in effective systems and network administration.

Ford Motor Company · *Consultant* · Dearborn, MI · November, 1991 - August, 1994

- Built a 150-node heterogeneous network for Ford's Overseas Engineering division from the ground up, providing hardware and software support for DEC, HP, SGI, IBM, and Sun workstations, IBM PCs, Cisco routers and Synoptics hubs, Prime data collectors, and assorted printers.
- Tested, certified, documented, and assisted in the deployment of UNIX engineering software (PDGS, RS/1, Aries, FMEaplus, Unigraph, AutoCAD), printers, and other applications (SoftWindows, Informix/Wingz, FrameMaker, Interleaf) for Ford Product & Manufacturing Systems' managed workstation environment.
- Wrote sh/csh/perl scripts and C code as necessary, for automating submittal process to Ford's Crays, and for evaluating and developing Ford proprietary UNIX solutions for email, Usenet, project planning, custom installation, and SNA and TCP/IP network monitoring.
- Assisted Ford's Electric Vehicle program and other Ford divisions with the launch and development of their UNIX engineering workstation environments, with emphasis on integration into Ford's global computing environment.
- Managed public Internet resources, helping to secure Ford's external Internet connection and supplier connectivity, maintaining Ford's Usenet backbone, and being the first person to deploy WWW technologies at Ford.

Strategic Dynamics, Inc. · *Consultant* · Southfield, MI · September, 1990 - November, 1991

- Assessed computer resource needs for local businesses, deploying Novell Netware, Microsoft LAN Manager, AppleTalk, and UUCP/Usenet network systems, various databases (dBASE III, Microsoft), and buying hardware/software as needed.
- Instructed in use of PC applications (WordPerfect, Lotus 1-2-3, AutoCAD) in personal training sessions, creating custom documentation for clients as necessary.
- Assisted in forming and teaching an introductory System V UNIX and Bourne Shell Programming course in a classroom setting, and ported various UNIX applications to the System V/Prime EXL series, MIPS RISCOS, and other UNIX environments.

Oakland University · *Systems Programmer* · Rochester, MI · September, 1989 - October, 1990

- Assisted staff and students with UNIX, VMS, MS-DOS/Windows, and Macintosh hardware and software support.
- Designed custom user management and queue management software and GUI in UNIX and VMS C, VMS DCL, DOS batch, and UNIX sh/ksh.
- Helped to manage TCP/IP Internet, DECnet, Novell Netware, BITNET, UUCP/Usenet, and PCSA/PathWorks network connectivity on campus.
- Taught classes and conducted seminars at beginner and advanced levels in VMS, UNIX, C, DCL, Pascal, sh/csh/ksh for students, faculty, and staff.
- Managed student employees as necessary.

Nalco Chemical Company (Fortune 500) · *Programmer* · Naperville, IL · March, 1988 - August, 1989

- Responsible for software design, development, support, and marketing for Trendcheck, a PC-based quality control system for plant floor use. Trendcheck is a data collector/database designed to help clients engage in efficient chemical usage based on statistical analysis of keyed-in and sensor-read data, and is still in use at Nalco client sites.
- Assisted VMS and MS-DOS users with applications use (VMS DCL, MINITAB, MASS-11, many MS-DOS applications). Designed end-user menu interface using VMS SMG to enhance productivity.
- Managed SunOS and DEC Ultrix integration with existing VMS DECnet, and helped to introduce TCP/IP technologies into the lab.
- Worked with development of waste-oil recovery processing (HEC/hydrocarbon emission control).

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### CONSULTING

In addition to full-time employment, I've functioned as an independent consultant for the following organizations, performing one-time and occasional part-time work. My customers have included:

- **Hewlett-Packard:** Reviewed and edited Sun/HP interoperability guide which ships with all HP workstations.
- **America Online:** Integrated the wu-ftpd FTP server software with AOL's Stratus mainframe environment.
- **Coast-To-Coast Telecom:** Performed network, UNIX and PC consulting for an inter-exchange long-distance carrier in Michigan. Assisted in managing the SimTel shareware archive, the largest collection of MS-DOS, MS-Windows, and Windows 95 programs on the Internet at the time.
- **ERIM International:** Consulted on the implementation and deployment of a networking application under NT 4 for a defense contractor (all work is under a non-disclosure agreement).
- **Apex Global Information Systems:** Helped with backbone networking and server setup, kickstarting a nationwide Network Service Provider.
- **Data-Tech Institute:** Acted as an instructor for their Firewalls and Internet Security Seminar.
- **TheNet Digital Services:** Set up and remotely managed BSD Internet servers for an Internet Service Provider in Florida (acquired by e.spire Communications, Inc.).
- **Inventron, Inc.:** Performed Linux and network consulting and support for a manufacturer of ultrasonic detection equipment.
- **Netrex:** Set up Solaris Internet servers, helped with Checkpoint configuration, and established boilerplate software loads for a network solution provider.
- **T & T Enterprises:** Performed Macintosh and network consulting for a residential architecture firm.
- **TNO-North America:** Performed IRIX and network configuration/support for the vendors of Madymo crash simulation software.
- **Limno-Tech, Inc.:** Provided Linux, Solaris, and networking and security consulting for an environmental engineering firm.

### REFERENCES

Feel free to contact any of the following individuals during regular business hours. If any additional references are needed, please inquire and I'd be happy to oblige.

**Jeff Marraccini**  
Manager of Systems  
Altair Engineering, Inc.  
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**George Hyman**  
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### MISCELLANEOUS

- Technical reviewer (one of three) for the *entire* O'Reilly Unix Backup & Recovery book.
- Tracking Web usage with Network Flight Recorder paper presented at WebNet 98 and the first NFR user forum.
- Open Standard Content Cookies WWW technology paper presented at WebNet 97.
- Help run both the SEMiSLUG Sun Users Group and MDLUG Linux Users Group meetings.
- President, Oakland University chapter of ACM, 1988 - 1989.
- Administrator, MI.ORG domain park, 1994 - Current.
- National Honor Society/Merit Scholar, other academic honors.
- Past member of IEEE, Tau Beta Pi, and other engineering societies.
- Michigan Coordinator, UUCP Mapping Project, 1993 - 2000.
- Speaker/Presenter, Fifth Anniversary OSF Conference, 1993.