

Ronald A. McCormick
2433 Cambridge Drive
Aurora, IL 60506
EMAIL: ramccor@pluribus.org
URL: <http://www.pluribus.org/~ramccor/>

OBJECTIVE: Senior Level UNIX Systems and Network Engineer

SUMMARY: Excellent ability to learn new technologies and integrate them effectively into an existing computer and network architecture.

Fifteen years of in-depth UNIX experience with consistently increasing responsibilities in installation, operation, administration, fault isolation, and fault resolution.

Eleven years of in-depth networking experience ranging from Datakit VCS to Packet switching to FDDI to ATM networks.

Proven ability to effectively analyze and find solutions to system and network problems.

EXPERIENCE:

10/1999 – Present Senior Engineer – RCN/Chicago

Responsible for the design, testing and implementation of a new cable modem infrastructure to replace an obsolete and aging network. Studied existing networks to determine pitfalls of existing infrastructure, created requirements documents, and worked with vendors to provide the most economical and fault tolerant network design. Performed all staging operations of new equipment to ensure proper operation. Worked with operations to deploy equipment in the production environment. Responsible for working with vendors to ensure interoperability across ATM and cable modem networks. Also responsible for taking appropriate action when interoperability goals are not achieved. Work with vendors to introduce new features and evaluate new products for possible introduction into production networks. Worked with software engineers to create a new service-provisioning package to replace an existing one, thereby reducing provisioning times by 94%.

Created and maintained scripts to perform automated upgrades of user cable modems and CMTS equipment, automate creation of ATM PVCs for DSL customers, perform software and hardware inventory of network equipment using SNMP.

12/1997 – 9/1999 Regional Engineer – Marconi Corp. (Formerly FORE Systems, Inc.)

Performed on-site network analysis, testing, trouble shooting and problem resolution for critical cases and "Hot Sites", contracted quick-response (2/4 hour) for strategic accounts as defined by FORE Systems management. Coordinated with the corporate Technical Assistance Center and Engineering in the determination and correction of product deficiencies related to installed system performance. Assisted and directed third-party Authorized Service Providers in problem resolution. Documented issues and status to customer and FORE Management. Assisted in the installation of FORE equipment as available. Provided expert analysis and prompt resolution of difficult or high visibility problems for customers in the region and throughout the U.S. Extended FORE's support services capability beyond that provided by TAC and allowed pre-sales systems engineer's to focus on increasing product sales.

5/1996 – 12/1997 **Senior Systems Analyst – Sprint Paranet (Formerly known as Paranet, Inc.)**
Managed network operations and engineering for seven buildings of a fifteen thousand-user customer campus. Designed, configured, and supported many different types of routing and switching equipment and associated networks. Designed and programmed many dynamic web-based programs using CGI, and Perl to collect and present network traffic statistics using a web based format. Managed and supported a wide variety of Sun SPARC hardware and Solaris UNIX software. Participated on a team to redesign and migrate the customers eight thousand node local area FDDI network to a hybrid Fast Ethernet and ATM switching network.

4/1991 – 5/1996 **Senior Systems Engineer – Unisys Corporation, National Security Solutions**
Directly responsible for the testing, evaluation, implementation, and integration of ATM (Asynchronous Transfer Mode) equipment into the customer's operational network. Kept track of the software and hardware versions. Investigate the equipment for security holes and software bugs, and work with the vendors to correct problems.

Systems Administrator / Systems Architect

Support the customer's enterprise-wide client/server based internetwork, providing network hardware support, and integration of network management tools. Performed as a lead system administrator and troubleshooter; managing DNS, NIS, and mail software; assisted less experienced systems administrators; automated many of the system administration functions on a network of many different UNIX servers as well as both UNIX and DOS workstations.

Provided capacity planning services and performed required re-engineering of customer systems to handle present and future requirements. Developed automated tools to ensure compliance with customer service level agreements.

Network Engineer

Performed network configuration, fault troubleshooting, and security accounting for a FDDI based multi-campus, enterprise wide intranet, which included numerous LANs (Ethernet, Token Ring, AppleTalk, IPX, TCP/IP, etc.) as well as two world wide packet switching networks. Performed system administration support on many types of UNIX machines, automating many of the tasks through the coding of shell scripts.

5/1989 - 4/1991 **Network Analyst – BBN Communications**
Furnished direct support for customer LANs and WANs at customer sites; installed operating system and packet switching node software; tracked and installed patches for the customers PSNs (Packet Switching Node), routers and gateways; responsible for troubleshooting problems on customers networks and taking corrective action; developed wide range of experience in network problems using equipment such as IDACOM X.25 protocol analyzers, network diagnostics hosts, ethernet sniffers, and satellite delay simulators.

Systems Administrator

Maintained company and customer UNIX system. Performed system tuning to gain maximum performance. Responsible for maintaining all system activity records; performed tape and disk to disk backups; created and maintained a variety of short C programs and shell scripts to automate system administration; performed system accounting for billing of machine usage; Coordinated test lab usage; Wrote and performed various test plans for software and hardware patches; Performed all in-house data cabling and connections.

3/1987 – 5/1989

Computer Systems Operator – Department of Defense

Assisted in the monitoring and operation of over 120 computer systems that were undergoing various phases of installation, development, and operational use. Duties included initiating and analyzing system dumps to determine causes of system failure, restoration of systems to an operational state, and logging these events. Responsible for training less experienced operators; reviewed and corrected inaccuracies in the Operations Morning Report; prepared materials for job processing; collected, labeled, and distributed computer generated output (such as magnetic tape and computer listings); and notified the appropriate personnel when complicated system problems occurred. In addition to operation responsibilities, participated as a member of a team which performed full system administrator functions on the organization's UNIX systems.

CLEARANCE: TSSI with polygraph – DOD 28 April 1992 (Currently Inactive as of 5/1996)

KEYWORDS: SunOS, Solaris, AIX, Linux, DOS, UNIX, Bourne Shell, C-Shell, ATM, Ethernet, FDDI, AppleTalk, Novell, X.25, 1822, Packet Switching, Proteon Routers, Cisco Routers, NetEDGE Routers, FORE Systems, TCP/IP, Trouble-Shooting, Network Management

PROFESSIONAL MEMBERSHIPS: ISOC, SCTE, USENIX

INTERESTS: Home computers, including Linux and DOS; Amateur radio; Computer network technology

REFERENCES: Professional references provided upon request.