Ray Matson Izumi, CCP, MCPS

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Present Position: Private Consultant   **Citizenship:** USA

Education:

B.A.   University of Connecticut, Storrs, CT
Major: Psychology with a minor in Computer Science
Additional: All core courses for BS in chemistry, University of Utah, Salt Lake City, Utah
                Microsoft Certified Product Specialist for Windows, Windows NT and NT Advanced Server

Summary: I have a broad background in the computing field with an in-depth understanding of networking, client/server, and system management issues. Systems experience includes VAX/VMS, IBM RS/6000, many variants of UNIX, DOS/Windows/WIN 95, and Windows NT systems, as well as SAP/R3, Oracle and real-time LIMS. I have installed and administered databases on all of these platforms. For the past 10 years I focussed on networking exclusively, and have built, managed, and maintained many LAN and WAN networks both large and small, using many different networking technologies. The network systems included Windows NT, Novell Netware, Ungermann-Bass Net/One, many TCP/IP internets, and DNSs. I have extensive experience with Cisco and Bay routers and switches. A recent contract included design and implementation in a very large network (170,000 nodes). Recent experience includes in-depth work with token ring LANs. I am certified in several fields noted below.

Experience:

Aerotek Data Services Group**,** Bellevue, Washington

12/97 to Present – Contract with Costco Wholesale. My main function was as the network troubleshooter of last resort, and I intensively trained selected employees in this art. I also served as principal architect for the redesign of the Costco ATM-based LAN, where I evaluated and tested various technologies including LANE and label-based switching. Concomitant to this project, I redesigned the IP addressing scheme and designed and implemented the LAN / WAN / Internet interface. The networking environment was primarily token ring and frame relay with ethernet switching in the core. TCP/IP and SNA were the networking protocols.

6/97 to 10/97 - Contract with Premera / Blue Cross, a holding company for several health care organizations. Integrating legacy networks, primarily moving IP, IPX, and SNA services from a frame-relay WAN (covering the Pacific Northwest and Alaska) to an ATM FastPacket backbone based on Stratacom IGXs and Cisco routers and switches. Diagnostic tools used included Cabletron Spectrum and NG Sniffer. Responsible for work statements, detailed designs and related issues as well as the actual implementations.

12/96 to 5/97 - Contract with Starbucks Coffee in the capacity of a project manager for the Mobile Communications Network. This project involved the evaluation and selection of a value-added network services provider and subsequent integration of the VAN services into the Starbucks internal network.

Technical People Inc., Dallas, Texas

9/95 to 7/96 - Worked under contract to AT&T GIS (now NCR) to upgrade the worldwide network for Texas Instruments. As a Technical Leader, I managed or participated in all technical aspects of the transition from a flat-bridged to a routed network at several sites worldwide (Malaysia, Philippines, Japan, Singapore, Taiwan). My teams and I designed and built a FDDI backbone using Cisco routers and switches, with local links to Ungermann-Bass hubs on the factory floors and WAN links to the TI intranet (routing protocols OSPF, RIP, BGP). To some degree, the technical functions of this position were secondary to my role as the pivotal point of contact for all technical and managerial personnel. The scope of the Technical Leader was universal in this very challenging position.

<u>Saudi Aramco, Computer Operating Systems Division</u>, Dhahran, Saudi Arabia

7/94 to 8/95: Computer Consultant - My first project was the creation of a large scale, client server system. I worked on every phase of the project, including HW/SW purchasing, vendor selection, installation and testing, security planning, and final implementation of mission-critical production servers running IBM AIX on the SP2, HP-UX, Oracle, and SAP/R3. I also wrote much of the system procedure and security documentation, and participated in the redesign of the token ring network to accommodate the increased bandwidth needed for a 2000 concurrent user system; this involved collapsing the backbone to a switched ATM and FDDI configuration.

I served on the Internet Architecture and Windows NT System Management task forces to determine company strategies in these areas, and redesigned the company Domain Name Services structure to accommodate all of Saudi Aramco's 35,000 network nodes located on three continents. Another important goal of this project was to give comprehensive training to Saudis in all aspects of managing client / server systems, with the long-term goal of total Saudiization of the project. I installed the first the instance of SAP at Aramco on the IBM SP2 platform, and also served as principal technical leader for the company-wide conversion of a 20,000 node Novell Netware network to Windows NT and Windows 95.

<u>Saudi Aramco, Engineering and Network Applications Unit</u>, Dhahran, Saudi Arabia

1/93 to 6/94: Computer Engineer - Planned and executed the consolidation of 2,000 computers and pre-existing LAN's located throughout Saudi Arabia into one wide-area network. The completed network consisted of various types of LAN's and protocols, including Novell Netware, Microsoft LAN Manager and Windows NT, 3COM 3+ Open, DECNet, LAT, Appletalk, X11, X.25, and TCP/IP. Included were the installation and configuration of Cisco, Wellfleet, DEC, and LAN bridges, routers, and hubs, as well as coordinating the backbone via dedicated lines, microwave, dial-up, and FDDI. The network consisted of DEC VAX's, HP, Intergraph, DEC, and Sun UNIX workstations, PC's, and Macintoshes, in both Ethernet and token ring topologies. This network was then connected to a larger SNA company network to form an internet having more than 8,000 nodes.

After completing this network I managed the various systems and tested new concepts for future development, including the use of X.400 and X.500 for e-mail, and development of remote management of pipeline control systems. The tools I used for network troubleshooting included the Data General Sniffer and Novell LanAnalyzer. I also designed and implemented the Domain Name Services scheme for the network, which included the root servers, and managed the conversion of a 300 node LAN to a Windows NT Advanced Server / Windows for Workgroups network.

<u>The System Works</u>, Redmond, WA

8/91 to 12/92: System Administrator - Train and supervise System, Network Managers and Operators for two offices. Responsible for all aspects of networked system consisting of 37 clustered VAX's, several IBM RS/6000 and HP 9000 UNIX computers using DECNet, LAT, and TCP/IP protocols over LAN and WAN. Design, specify, and supervise installation of network in new company facility. Maintain Oracle and Ingres databases. Design X.400 product interface.

<u>Interconnections, Inc.</u>, Bellevue, WA   (Developer of *Netware for VMS*)

3/88 to 5/90: System/Network Manager - Manage VAX VMS and ULTRIX Systems including VAXCluster and DECNet subsystems. Manage Ungermann-Bass, Novell, Token Ring, and 3COM LAN's consisting of minis, micros, and workstations. Establish, maintain UNIX network. Perform system tuning, capacity planning, load forecasting. Develop and implement company disaster-recovery plan. Administer hardware, software service contracts. Interconnections was the prime contractor to Novell for the development of Netware for VMS.

<u>ECOVA Corporation</u>, Redmond, WA

9/86 to 3/88: System Administrator - Program, maintain HP1000 computers running HP Lab Automation System, Aquarius and RPN GC/MS subsystems. Develop sample tracking and billing systems using C, FORTRAN, and

DBASEIII. Interface lab instruments. Design, specify, implement company-wide networked information system including HP1000's, DEC VAX's, and micros. This project included the coordination and supervision of several outside contractors.

<u>UBTL Div., Univ. of Utah Research Institute,</u> Salt Lake City, UT

1/83 to 9/86: Systems Manager - Maintain house computers (HP 1000's, VAX's, micros). Develop real-time interfaces to analytical instruments. Design/program data analysis program in FORTRAN and C (12,000 lines of code). Lecturer in laboratory information systems for RMCOEH.

9/82 to 1/83: Lead Analytical Chemist - Supervise eight chemists performing HPLC analyses. Develop ultramicro methods for analysis of explosives. Maintain house LIMS. Assist in preparation and writing of contract proposals and budgets.

9/82 to 5/83: Teaching Fellow, University of Utah Department of Chemistry - Analytical chemistry. Concurrent with duties at UBTL.

4/82 to 9/82: HPLC Group Leader - Supervise several HPLC chemists and technicians. Develop real-time computer interfaces for HPLC instrumentation.

7/80 to 3/82: Analytical Chemist: Perform HPLC and GC analyses. Methods development. Develop and operate supercritical fluid HPLC system for analysis of shale oil (NASA contract). Synthesize rare compounds for methods standardization.

Additional Training: (Documentation Available Upon Request)

Certified UB Engineer, Part A	Ungermann-Bass
Advanced Cisco Router Configuration	Cisco Systems
Administering the Oracle Database Parts I and II	Oracle Corp.
Introduction to Oracle SQL and PL/SQL	Oracle Corp.
Windows NT Advanced Server Administration	Digital Equipment Corp
DEC VAX System Management I and II	Digital Equipment Corp.
DEC VAX System Performance Tuning	Digital Equipment Corp.
DEC VAX DECNet Architecture	Digital Equipment Corp.
HP-UX UNIX Workstation Administration	Hewlett Packard
Network Wiring and Cabling Techniques	Learning Tree International
UNIX System V Administration Advanced Topics	AT&T
X.400 MHS - Standards and Practice	Interop Corp.
X.500 Directory Services	Interop Corp.
Building Local Area Networks	Data-Tech Institute

Professional Affiliations:

Certified Computer Programmer (Systems Specialty), Institute for Certification of Computer Professionals
Microsoft Certified Product Specialist (Windows, Windows NT, Windows NT Advanced Server)

Computer Operating Systems:

Hewlett-Packard RTE6/VM, VAX VMS, UNIX, OS/2, MS-DOS, MS-Windows NT, Windows 95

Network Operating Systems and Tools

Novell Netware, Ungermann-Bass Net/One, MS LAN Manager, MS Windows NT/Advanced Server
Network General Sniffer and Distributed Sniffer, Novell LanAnalyzer, Fluke Network Tools, Visio

Computer Languages: C, FORTRAN, BASIC, Pascal   **Foreign Languages:** French, Spanish