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Education

BS Political Science (minor: Mathematics, plus engineering topics), Brigham Young University, Provo, UT. 1968
JD and LLM (Taxation), George Washington University Law School, Washington, DC. 1975, 1977

Work Experience

Genealogy Registry/ProgenyLink, Spanish Fork, Utah (July 1999 to present)

The project was begun for the express purpose of exploring the re-engineering of the world's genealogy information systems. Applying the Henry Ford principles of mass-production and industrialization, including participant specialization and "industrial strength" cooperation, makes possible a 1000 times increase in overall productivity in the name assembly process. The design was completed and documented, and a prototype website is described and operating at www.ProgenyLink.com

I have performed website design and creation, and prototype design and testing for a new genealogy-related database system. Used PHP, MySQL, HTML, ASP, ACCESS and SQL Server databases, Visual FoxPro.

Electronic Data Systems (EDS), at Verizon (was Bell Atlantic) customer site. Arlington, VA (December 1, 1998 to July 1999)

Begun by Ross Perot to process Blue Cross health insurance, EDS is one of the largest computer services and consulting companies in the world.

As part of a staff of 900 programmers on the project, I was assigned to the development and testing of the Event Processing System, Verizon's extremely complex COBOL/DB2-based pricing and billing system for local and long distance calls. The facility serves most of America's East Coast homes and businesses. At least 200 million transactions are processed a day.

The SABRE Group, US Airways, Metro Information Systems. Crystal City (Arlington), Virginia (March 1998 to November 1998)

The SABRE Group, a subsidiary of American Airlines, provides online reservation service and other accounting and information services for most of the world's airlines. It operates several enormous computer centers. It has about 10,000 employees, 3,000 of which are programmers.

I was the project technical lead on SAS/DB2/MVS portions of outsourcing contract, managed by The SABRE Group, migrating US Airways computer systems to SABRE computers, including all necessary Y2K remediation and exhaustive testing. My task included coordination with staffs and technical standards of four different mainframe installations around the country as components were moved through five cycles of modification and testing. Even with a late start, my sub-project met all milestone targets for planned cutover.

U.S. Department of State, Washington, DC; Mexico City, Mexico; and Moscow, Russia; Embassy Information Systems Officer. August 1990 - January 1998

The Department of State operates embassies and consulates in all countries recognized by the U.S. Government.

I participated in contract-related studies for a major mainframe upgrade project, with an expected contract value of up to \$200 million. I also assisted in field studies of computer resources and needs.

I operated and upgraded worldwide computer systems at the largest (1,000 employee) embassies of the U.S. State Department. Supervised five to nine employees. Installed \$1 million in new PC and small mainframe computer hardware. Helped resolve computer and communications problems for visa processing for up to 4,000 applicants a day, as in Mexico City. Installed full text search system for embassy news intake of 900 translated pages daily, saving 40 man-hours processing each day, with better access to data. Held top secret security clearance.

U.S. Treasury Department, Washington, DC. Computer Specialist. 1989 - 1990

The Financial Management Service is the accounts payable facility for the U.S. Government, just as the Internal Revenue Service is the accounts receivable facility.

As part of a staff of about 300, I was assigned to software quality assurance. I participated in design studies for a major upgrade to the disbursing system which produces 600 million payments a year while expending the entire federal budget of \$2+ trillion. I participated in the release of the project description (RFP) and the evaluation of resulting proposals. A cost-plus contract was issued with target value of \$40 million.

U.S. Commerce Department, Census Bureau, Saudi Arabia. Project Leader. 1979 - 1989

The U.S. Census Bureau was assigned to help the Saudi Arabian Government set up and operate a government statistics facility, and to train Saudis to eventually take it over.

As project lead, I designed and programmed an online import/export statistical system for the Saudi Arabian government, collecting and reporting data concerning oil exports and commodity imports, achieving major improvements in accuracy and timeliness of data. The system contained 15,000 data and program modules. Acted as system programmer for online CICS system. Served as user technical support on general training and computer performance questions. Instructor for CICS and VSAM. Participated in study and evaluation of IMS, DB2, IDMS database systems.

Assisted in the economic time-series analysis of data used to model the entire Saudi economy.

Designed and programmed important international product inventory and invoicing accounting systems for large petrochemical company in Saudi Arabia with \$2 billion annual sales. The PC/LAN system installed was the first use of computers by this organization, and brought very large productivity and accuracy increases to central office staff of 250. CEO took direct interest.

Association of American Railroads, Washington, DC. Senior Analyst. 1977 - 1979

The Association operates the cooperative computer system that describes and continuously tracks the ownership, location, and loading of all railroad rolling stock in the United States, Canada, and Mexico. The U.S. government maintains a link with the AAR to ensure quick shipment of military and other assets in an emergency.

I assisted with leasing of new mainframe and peripherals, and lease termination for old equipment, with total equipment value over \$10 million.

U.S. Interstate Commerce Commission, Wash., DC, Transportation Attorney-Advisor, 1975 – 1977

The ICC regulated all rail, highway, and intercoastal waterway freight carriers.

I processed new operating rights applications and related administrative appeals. I devised a graphical calculating device to assist in one revision to regulations affecting trucking firms.

U.S. Federal Trade Commission, Washington, DC, Analyst/Programmer, 1973 – 1975

The FTC continually collects business statistics on all large U.S. corporations, and watches for illegal trade practices or anti-trust violations.

I assisted with conversion of second-generation finance and statistical survey computer applications to third generation computer systems.

U.S. Justice Department, Washington, DC, Computer Specialist. 1971 – 1973

The U.S. Bureau of Prisons operates the 28 federal prisons.

I performed detailed technical design and programming of the centralized accounting system for 28 federal prisons, with emphasis on complex interfaces with operating systems. Resolved troubling programming and communications matters as they arose.

U.S. House of Representatives, Wash., DC, System Programmer and Operations Manager, 1969 – 1971

The Clerk of the House handles all central administrative processing for the House – payroll, banking, etc.

I installed and maintained accounting and voting systems for Congress, including their first electronic voting system. As operations manager, I managed a small staff and was also concerned with mainframe software installation and maintenance.

U.S. Navy Department, Washington, DC, Programmer, 1968 - 1969

Design and testing of ship-related information systems – individual ship configuration status, maintenance and upgrade scheduling, etc.

Computer Languages and Systems

About 30 computer languages, operating systems, and database systems for mainframes and PCs.:

Internet and PC-based:

PHP, MySQL, HTML, Visual Interdev (Visual Basic Script--ASP), HTML, C++ (academic study)

DBASE III & IV, FoxPro, Access, SQL Server, COBOL, SAS (Statistical Analysis System)

DOS/Windows 3.1, Windows 95, Windows NT and NT Server, Novell NOS

Macros for Lotus 1-2-3, Microsoft Excel, WordPerfect

Full text search systems such as ZyIndex, Folio, Lotus Notes.

Mainframes:

MVS/JCL, TSO/SPF, COBOL, DB2, CICS, EASYTRIEVE, IBM Assembly Language, PL/1, FORTRAN, BASIC, SAS (Statistical Analysis System). VSAM, IDMS, IMS.