Peter F. Zoll

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I have and use a flowchart template, green bar printer paper, a yellow card (assembler instructions) and an IBM Field Engineer's Guide with original black cover.

Hardware: IBM Mainframes, Windows and LINUX desktops, laptops, smart phones, and tablets

Languages: COBOL, 370 Assembler, Visual C++/C#, Visual Basic (6 and .net), FoxPro, Java, MASM. No longer any good in PL/1 or ALGOL.

Environments: z/OS (also known as OS/390 and MVS); JCL and internals, IMS/DC, CICS, TSO/ISPF, all Windows since 3.0, Windows Server, Windows/CE, Palm/OS, MeeGo

Databases: DB2, IMS/DB, Oracle, Informix, Access, MySQL, SQLite, PostgreSQL, SQL Server, Mongo, IDMS, SQL Lite

Software: Compuware Performance products, Crystal Reports, Visual Test, Help Authoring Tools, Excel, Word, Access, Powerpoint, Project, Selenium, Loadrunner, Aivosto

Experience: 50 years and counting as a programmer; 13 as Chief Information Officer, 24 years as a Database Administrator; 22 years as a team leader / manager. At the 2011 Intel Developers' Forum in San Francisco I produced 11,407 lines of cleanly compiled and tested dot net code in 23 hours. Without coffee or drugs. Screenshots of the Windows forms produced can be seen at http://www.silverwolfwushu.com\Gazelle.html.

Expertise: Tuning and debugging of database applications; Data Compression and Encryption; Data Modeling using Rational Rose; Supervising applications and systems programming teams; Non-linear optimization and advanced statistics; Salvaging nearly hopeless projects

Current technical interests: Parallel programming to optimize multi-core system performance using solid-state drives and clouds; advanced statistical treatment of seismic events; aggressive use of threads in critical path scheduling systems.

Applications: Accounts Payable; Accounts Receivable; Payroll; Sales Order; General Ledger; Personnel; Attonomics; MRP; Bill of Materials; Data Dictionary; Shop Floor Control; Purchasing; Insurance Claims; Inventory Control; Master Scheduling; Loan Pricing; Customer Relationship Management; Data Set Optimizer; Bank Officer Planning; Policy Control; Supply Chain Management; Exanomics; Individual Educations Plans; Educational Achievement Tracking; Scheduling.

Professional:

 21 papers dealing with data structures and storage, encryption, parallel processing, and programmer measurement.
 Member for 20 years, IEEE Committee on Software Engineering
 Referee, National Computer Conferences
 Head of Section - Quantitiative Methods - International Tsunami Symposium
 APICS certification
 Speaker at LinuxCon 2012, Intel Elements 20111
 Invited speaker SugarCon 2011: Citizen Rights Management

Chronological (mainframe only – I have usually worked as a consultant NOT an employee):

Intermittent and irregular debugging (usually from an ABEND dump, and often with program compilation listings including DMAPs and CLISTs) for, among others, Boaters Insurance, Wells Fargo Bank, the World Health Organization, and the Bolivarian Republic of Venezuela.

10/2002 to 06/2012 CIO I-MAG STS Corporation Menlo Park, California

Our DEEDS ABIDE suite is composed of 30 major applications totaling over 7,000 Windows forms and Active Server pages. Typically, applications made use of clouds (Azure), SQL Server, the instrumentation API, and biometric validation to provide attonomic data collection, and to support highly complex exanomic modeling. In addition to my other duties, I handled all mainframe interfaces on four continents.

Portions of this suite were been featured twice in Intel publications; won Microsoft's Windows 2003 Server contest, and were second runner-up in the 2009 Business Intelligence contest. The platforms range from handhelds for mobile social workers and police through tablets for doctors to desktops to county and state-level servers as well as clusters and now clouds. There are also specialized applications for epidemiological analysis, embedding Individual Education Plans, and first responder support. All application development were converted from VB6 to VB.net with the computationally intense areas remaining in C++. Widespread use of text to speech, multiple human languages and Sarbanes-Oxley and HIPAA-compliance. www.imagsts.com\Chronology.html has hundreds of webpages from various projects.

06/2001 to 10/2002 Safeway Stores Walnut Creek, CA (now part of Albertson's)

I designed and wrote a beverage Quality Assurance Standards and tracking application using Visual Basic 6 and mainframe connections for the Supply Division. Performance analyst and quality assurance lead for a project that involved Java applications running under Mozilla on Linux on proprietary hardware "slates" attached to a shopping cart. Personalized shopping advice was transmitted using radio frequencies to the slate which included a magnetic stripe reader. Project lead to formalize data extraction and FTP transfer from mainframe DB2 databases to mid-range Informix databases as part of the Inventory Shrink analysis project using VB.net. Lead Technician on three eBusiness projects – demand aggregation (company-wide order consolidation across numerous hardware platforms); integrated catalog management (automation of vendor item changes) and using Connect Direct and Connect Enterprise to send point of sales data from a datamart to select vendors. Architecture was MQ Series linking mainframe COBOL LE programs to Java handlers which handed off XML to a browser. The follow-up projects involved extracting business rules from the legacy COBOL applications and re-engineering in Visual Basic with a substantially different architecture. Participated in the specialized purchasing system (meat, seafood and produce only) construction which converted more than two hundred forms from FoxPro 2.5 to Visual Basic 6 with unique FAX and email services.

1/2001 to 6/2001 TenSquare.com   San Jose, California

Project manager and technical lead reporting to the Chief Financial Officer for a very high volume, real-time billing system designed to obtain gasoline pump display controller telemetry in XML using VB 6. Rule-based calculations were applied to rate the advertising events and then interface to Oracle Financials (accounts payable and accounts receivable) on a mainframe.

11/1999 to 1/2001 Safeway Stores Walnut Creek, California (now part of Albertson's)

Co-lead on a project to design and write an application to coordinate general ledger budgets with shop floor control of manufactured items using Visual Basic with intense and extensive use of Crystal Reports. Data mining to determine which customers were most profitable and why by building essBase cubes from extracted DB2 data and by using Informatica PowerCenter. The Store Charges application was written in Visual Basic and used Informix and DB2 databases to provide retail store management with visibility into the accounting consequences of ordering actions. Designed and wrote a very complex application which tracked and evaluated the efficiency of the company's annual two billion dollar investments in real estate purchases and facility upgrades.

Working under considerable pressure I replaced an under-documented and inefficient collection of FOCUS programs by building a flexible harness which allowed accounting personnel to build SQL queries and have them run overnight on a schedule. The results were downloaded to Access and any errors reported by email. **This reduced the number of sleeping bags in the offices during close by 100%.**

5/1997 to 10/1999 Arrowsoft Development Fairfield, California

Technical lead for the design and development of an insurance billing system for a consortium of insurance companies. This was a very large FoxPro 3/5 application with a team of ten – extensive uploading and downloading of data between NT servers and IBM mainframes.

7/1996 to 4/1977 Matson Navigation (now part of Alexander and Baldwin) San Francisco, California

Maintenance of heavily customized Tesseract payroll and pension applications featuring mainframe processing and local (ship and shore) Windows clients. Re-engineering of a diverse collection of EDI batch reports to real-time Crystal Reports on Windows workstations showing container, power unit and trailer status.

5/1994 to 6/1996 American Stores (formerly Lucky's; now Albertson's) Dublin, California

Rewrote the four sets of labor pricing and pension custom McCormack and Dodge (M&D) applications in a consolidated form so that all operating companies were handled in a similar manner. Responsible for all programming and design to convert M&D VSAM data to PeopleSoft DB2 tables. This included construction of all the DB2 utilities and acceptance scripts for data validation. At the time, the largest Peoplesoft installation in terms of people paid. Also responsible for all programming and design to accommodate alternate pay pricing and automated progressive wage increases.

10/1992 to 4/1994 Pacific Gas and Electric Company San Francisco, California

Developed new payroll and personnel applications using CSP and COBOL with DB2 under CICS. The Job Bidding application was a then-novel use of Interactive Voice Response (also used touch-tone telephone input and voice output) and was the most heavily used application in the company. Other applications involved interfacing mainframes and personal computers using both TCP/IP and SunNet as well as

encapsulating the LRS software for use by CSP applications needing SNA-attached printers.

10/1991 to 09/1992 Port Authority of New York/New Jersey New York, New York

Part of a team working at Integral Systems that was charged with massive customization of the Integral Systems payroll and personnel applications using CSP and COBOL with DB2 under CICS. I acted as database administrator and lead application programmer. According to IBM, I authored the first use of PL/1 subroutines by a CSP program. **This system functioned throughout the <u>first </u>World Trade Center bombing.**

07/1990 to 09/1991 Charles Schwab San Francisco, California

I rewrote the batch stock brokerage commission calculation and accounting systems in order to provide the online ability to construct promotions. This work was done in COBOL using CICS with both DATACOMM and IDMS.

04/1989 to 06/1990 Integral Systems   Walnut Creek, California

My two major assignments were the construction of a tool kit to allow rapid conversion of Cullinet IDMS/ADSO payroll systems to Integral DB2/CSP systems and the application of two years of upgrades to the very heavily customized systems in use at Caesar's Palace casino in Las Vegas. Other consulting assignments included work at Rainier Financial (Chicago), American General Insurance (Dallas), Peter Kiewit Engineering (Omaha) and City of Phoenix (Arizona).

07/1988 to 03/1989 Integrated Automation Alameda, California (now part of Lytton Systems)

I performed a lengthy software quality audit on a comprehensive business system written in C and COBOL on an IBM mainframe and two linked Stratus minicomputers supporting the automation of a warehouse for Federal-Mogul.

04/1987 to 06/1988 Progressive Insurance Richmond, California

Assisted in the design and testing of an insurance claims system written in ADSO. First reported use of a desktop laser printer to print checks in an ADSO system.

10/1986 to 03/1987 IBM - GPD San Jose, California

Responsible for gathering user requirements and production of external reference specifications. Technical tasks included VSAM definitions, table creation, table loading and the building of model DXT, QMF and AS application processes.

03/1986 to 9/1986 Integrated Automation Alameda, California (later Lytton Systems)

Part of a 12-person team which developed a comprehensive business system for an automated warehouse for Ameritech. 130,000 lines of COBOL for IMS/DC with heavy use of barcodes.

01/1984 to 03/1986 GTE Sprint Burlingame, California

Maintained and largely rewrote a CICS/DLI Sales Order System which included decryption of customer EDI data. The sweep run-time was reduced from 48 hours to 4 including checkpointing.

09/1983 to 01/1984 MicroResources Santa Rosa, California

I was Vice-President of Engineering responsible for development of PC-based comprehensive bank executive information system which linked to mainframes using VTAM.

04/1982 to 09/1983 Fireman's Fund Insurance San Rafael, California (first a part of American Express now part of Zurich Insurance North America)

To cope with a chronic scarcity of storage I implemented database compression using Huffman codes. I provided Norm Owen of IBM (author of the SMU utilities) a massive code modification that allowed database pointers to be analyzed even after the database was greater than two gigabytes. Provided debugging, tuning, and design assistance for applications programmers developing a very large system to integrate claims and policy exposures.

04/1980 to 04/1982 Southern Pacific Transportation San Francisco, California (now part of Burlington Northern Santa Fe)

Installed IMS DB and DC. Designed and implemented an accounts receivable system that integrated freight bills and way bills. Assisted the legal department staff in

abandonment, commodity rating, and both Santa Fe merger efforts.

Additional consulting work was done for Goldman-Sachs (stock trading systems, New York City); PetroBras (petroleum Brazil); Bechtel International (payroll and currency exchange; London), AKZO (consolidation of the conglomerate's treasury systems to one application with support for multiple human languages, Holland).

Prior consulting assignments included Atari, Memorex, Boole and Babbage, Levi-Strauss, Ampex, Hewlett-Packard, General Electric Timesharing, AT&T, PDVSA, Cedars-Sinai Hospital.

Education: University of Chicago BA Business 1973