



William P. Fritz

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CAREER HISTORY

1997-present Architect, Analyst, Programmer, Developer.

**Consultant, Various Locations,
Clients / Employers - (1099/W2)**

Developer, Programmer, 2006-2007

Harbor Objects, LLC, 8110 Dove Street, #228, Newport Beach, CA (949) 752-1080

General programming to support existing customers. All work used Visual Studio and VSS for ASP.Net v2, VB.Net, ADO.Net, MS SQL Server and were data-centric. User interfaces were refined with Ajax and client-sided Javascript, HTML, CSS and skins. Utilities were written to edit and insert backend data. Performed on site (W-2).

Also: Linksys, County of San Bernardino ISD, iWay, SEI Information Technologies, HealthELink, Air Quality Management District, (AQMD), Pacific Data Technologies, KnowledgeBroker and more, see [web site](#) for more detail.

Programming, Analysis and Architecture-General practice of information technology for many platforms.

E-Commerce- (Web-Based) Create and improve sites. UI displays, shopping carts, job board, HTML, dHTML, ASP.NET, ASP, ADO.NET, VB.NET, CSS, SQL, Graphics, UI, Code-behind, Back end.

E-Commerce- (Traditional) EDI Implementation of medical and accounting (ISA X.12 810, 836, 850, 852, 357).

Project Management- Gather and define requirements, manage technical team, document, test, rollout.

User Interfaces- Created many client-server, desktop and web user interfaces. TCL, VB, C, HTML, Java, .Net

Data Warehousing- Develop methodology, wrote manual. VB6 conversion programs, DataJunction

Customer and Product Support- Designed and wrote a contact management system for a call center.

Human Resources Support- Conduct technical interviews of IT candidates.

Developer, Founder and CTO. 1988-1997.

Dynamic Pathways Company, 800 Newport Center Drive, Newport Beach, CA

Prepackaged, shrinkwrapped software was created and sold. Products included text content, manuals, workbooks and software written in C. "*Success, Inc, the Powerful Business Plan Writer*," established shelf space and began a genre of interactive planning software. Microsoft-Certified for DOS, Windows 3.1, 95 & 98. SCORE, EB, CompUSA, and PC Magazine endorsements. Average sales/year, \$2.2M wholesale.

Developer, Founder, Sales and Support, CTO, VAR. 1984-1988.

TQ Systems, 512 North Coast Highway, Laguna Beach, CA

Created, installed and supported a turnkey system to automate questionnaires. Networked microcomputers performed real-time touchscreen presentations. All original concept and code. Setup, questionnaire definition, presentation, data analysis, statistics and graphs. Consumer food testing. Hewlett-Packard VAR.

Senior Scientific Computer Systems Analyst, Computer Systems Manager, Project Leader. 1981-1984.

Hunt-Wesson Foods, R&D, Technical Center, Fullerton, CA

From the statistics department of Research and Development, I was responsible for computer implementation and service for 400 professionals among analytical chemistry, statistics, packaging, processes engineering and product development. Managed Hewlett-Packard 3356/57 (1000) Laboratory Automation System (LAS) high pressure liquid chromatography (HPLC) analysis. Attended training by Hewlett-Packard in Sunnyvale, CA and Avondale, PA. Executed, modified and supervised routine statistical analysis using FORTRAN IV programs for IBM 360/4xxx OS JCL TSO. SAS, SPSS. Working with engineers, I implemented the use of microcomputers in R&D for pilot plant development, package design, new products, sensory analysis, quality assurance, chemical analysis, human resources (Hay data) and marketing. I performed experimental design and statistical analysis. Presented a series of in-house lectures and published in the Journal of the IFT (International Food Technologists). 1984 **R&D Employee of the Year.**

Consultant (1099), 1981

Memorial Hospital, Pediatrics Department, Long Beach, CA

Developed and wrote real-time programs which applied Fast Fourier Transforms to measure pulmonary compliance from expiratory flow. Motorola 6502 machine language. Asthma Diagnostics.

Departmental Illustrator (P/T 1099) 1979-1981

**Department of Plastic Surgery, University of California Irvine Medical Center,
101 City Drive South, Orange, CA**

Drawings were made for journals to illustrate surgical techniques and natural history of injuries.

Research Associate IV, Cardiopulmonary Research Laboratory, 1977-1981

**Department of Pediatrics, University of California Irvine Medical Center,
101 City Drive South, Orange, CA**

Performed experiments to evaluate hypothermia as a pretreatment for surgery. Experimental surgery; taught catheterization and cannulation. Recorded and analyzed electrocardiography, arterial and venous blood pressures, tissue perfusion, oxygen partial pressures and carbon dioxide production. These analog parameters were digitized and measured in real-time on a DEC (Digital Equipment Corporation) Minc / PDP-11 (OS RT-11). Wrote programs for data collection and analysis in Basic. Bench laboratory analysis data (hemoglobin, hematocrit, and Coulter counter data) was manually entered into the analysis system. Offered postgraduate research credits to UCI students for their participation. Published: Fritz, Beran and Sperling, "A File System for Physiological Analysis," Proceedings of the Digital Equipment User's Society (DECUS), Volume 7, no 2, 1980.

Technical Illustrator, (W2) 1976-1977

Pace Publications, Anaheim, CA and Mercury, Tustin, CA

Production art was created with Rapidograph technical pens with plastic ink on mylar and vellum. Brush camera and planetaries. Line drawings and PCBs were produced for product manuals, presentations and proposals. Customers included Hughes Aerospace, McDonnell-Douglas, TRW, Autonetics and Department of Defense contractors. Company 'Confidential' clearances.

Research Associate II, 1975-1976

Department of Physiology, University of Michigan Medical School, Ann Arbor, MI

I was a member of a team conducting cardiovascular exercise physiology research. We studied hemodynamics in cannulated dogs subsequent to artificially stimulated muscular exercise. Instrumentation, pressures gases, electrocardiography, surgery, and blood chemistry.

Teaching Associate, 1972-1974

Department of Biological Sciences, Michigan Technological University, Houghton, MI

Taught Animal Physiology, BL-330. Lecture and Laboratory, Used Guyton texts, prepared illustrated lecture notes for distribution. Created and applied testing materials. Graded students and provided references.

EKG Technician, (part time) 1971-1972

Heart Station, University Hospital, Ann Arbor, MI

Performed portable EKGs, electrocardiographs, in ward, private rooms and semiprivate rooms. Preparation and filing of readings and reports.

Microbiologist, 1969

Upjohn Pharmaceutical Company, Kalamazoo, MI

Bench laboratory tests were executed for Quality Assurance (Q/A) of Unicap vitamins and Mycitracin antibiotics. I executed separation procedures and assessed assays for the inhibition of bacterial growth in agar for neomycin, bacitracin, polymyxin B.

Theater Projectionist, Doorman, Assistant Manager, 1962-1969, 1972-1975

The Lode Theater, 512 Shelden Avenue, Houghton, MI

Doorman, vending, ticket sales, clean-up, opening, closing, operate 35mm projectors. Twenty minute reels, carbon arc illumination, regular and cinemascope lenses, changeovers. Fifteen to thirty hours/week.

Additional Experience includes...

Security, Cashier, Sales, Order fulfillment, Motel Deskclerk (Copper Crown Best Western, Hancock, MI, Travelrest Resort, Houghton, MI, 3 years, P/T), Window washer (4 years, P/T), Newspaper delivery (3 years, P/T), Busboy, USA Alpine Competitive Ski Racer, 1959-1969, NCAA, USSA, MTU Ski team, MVP, Captain 1968.

EDUCATION

MS, Master of Science (2 years and thesis) 1974 and **BS**, Bachelor of Science (4 years) 1969

Biological Sciences, Michigan Technological University, Houghton, MI

Inorganic chemistry, Organic chemistry, Physical chemistry, Physiological chemistry, Animal and plant physiology, Cell biology, Histology, Anatomy, Animal behavior, Ecology, Environmental sciences, Electrocardiology, Biosimulation, Business

Postgraduate Studies, MD program (2 years), Univ of Mich Medical School, Ann Arbor, MI

Human Anatomy, Histology, Embryology, Biochemistry, Microbiology, Neurology, Physiology, Pharmacology, Psychiatry, Clinical Medicine

COMPUTER SKILLS

Software

BASIC - MS VB.Net, Visual Basic v3.0-7.0 (8 years), VBA, script, BasicA, GWBasic, DEC, HP, IBM, **30 years**.

C, C++ - MS Visual C/C++, C#, **Borland C/C++** v3.0, 3.5, 4.5,6.0, Symantec ThinkC, **20 years**.

DATABASE - MS **SQL**, stored procedures, **ADO.Net**, ADO, Jet, **Access**, HP Image/Query, **20 years**.

JAVA - **Client**, server **scripting**; virtual machine, 10 years.

OTHER- **HTML, ASP, ASP.NET, XML**, UML, 5 yrs; ASM, machine language, PCL, GL, TCL; Pascal, Ada, Fortran, 30 yrs, **Win32 API**, .Net, MFC, ActiveX, COM, DDE, OLE, Jet, ODBC, ADO.Net, ADO, 15 years.

APPLICATIONS – **Visual Studio 2003, VS v3-6, Interdev**, Visual SourceSafe, Word, Excel, PowerPoint, Project, Fusion, Photoshop, Quark, PageMaker, HP 3357 Analytical Laboratory Automation System (LAS), SAS, SPSS, Rational Rose, Sterling Commerce EDI. See web site.

OPERATING SYSTEMS - Microsoft **Windows XP, 2000/3, NT, 98, 95, 3.1**; MS-DOS versions 1-8, Digital Equipment Corporation (DEC) RT-11, RSX-11M, Hewlett-Packard (HP) 1000 Fmgr, LAS 3356, 3357, IBM MVS TSO, Unix, CP/M, Apple II+, and Apple Mac System 7.

SUMMARY

Experience: 20+ years of experience in information systems development and implementation in various environments; project definition and evaluation, human resource assessment and management, corporate technology development, business development, technical consulting, cardiovascular sciences, academia, prepackaged horizontal software industry, vertical market software, VAR, internet businesses.

Technical: research, analyst, designer, architect, consultant, developer, support, writer, IS manager, software reviews, environmental target determinations, troubleshooting, HR evaluations.

Administrator, Manager: project leader, systems manager, proposal development, chief executive officer, strategic partnering, startups.

Professional Services: business planner, research associate, teaching associate, technical illustrator, medical illustrator, software publisher, author.

Marketing, Sales, Service: identified target markets, created packaging and ads, wrote, sold and serviced several types of software. Fine art (oil painting), hardware and tool sales at retail stores. General business support and administration.

Primary professional tools: Programming, Analysis, Design, Architecture: Software development using Cs, VBs, DBMS, HTML, CSS, ASP.Net and ADO.Net; word processors for documentation; statistics; common sense.