

DEVELOPED and deployed systems for money-center banks to London, Frankfurt, New York, Zurich, Brussels & San Juan.

RESPONSIBLE for bids, contracts, full SDLC and P&L on fixed-price projects; for multi-million dollar budgets.

MANAGED up to 5 direct & 25 indirect reports, concurrent projects and multiple vendors in local and remote locations.

IMPLEMENTED substantial applications for Fixed Income, Trading, Portfolio Analysis, FX and Market Data.

CONVERSANT with fixed-income and derivatives analysis techniques; extensive development experience and broad technical background.

COMMUNICATES skillfully with senior executives, business units and technology groups.

Expertise

Clients	Roles	Financial Applications	Responsibilities
Citibank	Program Manager	Trading Systems	App. Design & Development
Fidelity	Project Manager	Fixed-Income Analytics	Prod. Development & Deployment
FXNET	Software Architect	Portfolio Mgmt. & Analysis	P&L, Budget Management
Putnam	Software Engineer	Market Data Servers	Vendor, RFP & Contract Mgmt.
NYNEX	Systems Analyst	Foreign Exchange	Analysis & Modeling
Sprint	Business Analyst	Derivatives Analytics	Design & Code Review
CERN	Entrepreneur	Electronic Funds Transfer	Quality Assurance
	Troubleshooter	Message Switching <i>(Full list on page 5)</i>	Technical & User Documentation Service & Technology Evaluation

1994 - 2007 Consultant

MCSA Technology Solutions

Jul 06 – Oct 07 Technology Manager for Fixed-Income Trading Applications

Fidelity Brokerage Company

Project, program and vendor management for multiple fixed-income trading projects. Responsible for the management of concurrent projects and their budget. Principal liaison with business units. Responsible (in aggregate) for the program management of 10 development groups, 2 QA groups and 2 vendors. For some projects took on the role of project manager, QA manager and analyst.

- Major upgrade to the Bloomberg Trade and Order Management System (TOMS).
- Data feed for BondDesk TradeMonitor application for compliance monitoring.
- Extraction, distribution and monitoring of real-time MSRB and TRACE alerts.
- Integrated “Bids Wanted” application for retail customers.
- Consulted for 15 months; Tech: Bloomberg TOMS, WinXP, UNIX, Z/OS, Java, Perl, NET, C#, Oracle, Mercury, Clearcase, Access.

1999-2006 Equity & Options Trading; Technology Research; Application Development

MCSA R&D

Investing and trading for my own account; various research activities. The majority of my short-term trading used equity option strategies. Technology and research activities during this period:

- Implemented useful programs for derivatives analysis using PERL, JavaScript, AppleScript, Java (& NetBeans IDE), CSS and Visual Basic. Administered “OS X” (and “Windows”, occasionally) platforms.
- Researched XML, SSH, J2EE, J2ME, MySQL, RUP, CURL, Video Codecs (principally Mpeg-4), various 801 wireless and security topics and SSL.

Mark Sieber

- Researched short-term price forecasting models based on techniques suggested in "A New Kind of Science" by Stephen Wolfram, and the structure of

"Implied Volatility" as used in financial derivative calculations.

- Developed Excel-based option analysis programs.

Apr 03 – Apr 04 Technology Expert for ERP Litigation

LeBoeuf, Lamb, Greene & MacRae, LLP

Non-testifying expert for major ERP software litigation; reported to Senior Partner.

- Advised senior partners on database and network technology; project management, SDLC (including ISO 9001) and QA processes.
- Drafted technical sections of legal documents.
- Prepared analysis and presentations for clients.
- Reviewed, evaluated and managed disposition of technical discovery documents.
- Discovered that defendant was withholding key emails and documents.
- Prepared, advised and supported attorneys for depositions.
- Consulted for 12 months; Tech: ERP, ISO9001, QA, SDLC.

1998-1999 Program & Vendor Management, QA for Voice Recognition Product. InTouch Systems, Inc. / Sprint PCS

Program manager for the development and deployment of InTouch's voice-recognition and automated telephone assistant ("InFlection"). This application was the core of Sprint PCS's "Voice Command" product. Reported to President.

- Coordinated activities of developers with marketing, development partners, implementation partners and vendors.
- Instituted reliable planning, scheduling and progress tracking for multiple projects.
- Advised management on tradeoffs between resources and project deadlines.
- Initiated independent QA process; developed initial test plans and scripts for "InFlection."
- Managed vendor relationships.
- Drafted, revised and reviewed "Statement of Work" documents for and from business partners.
- Consulted for 18 months; Tech: Voice Recognition, Unified Messaging, C++, RS6000 / AIX, Win2K, MS Project, Web Servers, HTML.

1996-1998 Consultant & Troubleshooter for CIO

NYNEX / Bell Atlantic Yellow Pages

Provided project management, vendor management, systems integration, technology analysis, application design and development, vendor evaluation and review, legacy code review and documentation. Principal projects were the web-based yellow pages service "Big Yellow", directory services for overseas markets such as Europe and China and data warehousing. Reported to the CIO.

- Identified significant planning and development problems with in-house development effort for Big Yellow.
- Provided planning, analysis and re-design for the "Big Yellow" e-commerce service.
- Responsible for analysis, design, development & testing of the integration of "Big Yellow" with NYNEX accounting system; managed developers from MCSA, NYNEX and vendor.
- Used MCSA analysts to code-review and evaluate in-house database application.
- Evaluated database and middleware vendors.
- Facilitated the planning, analysis, project management and product development for overseas directory services in Eastern Europe, Taiwan, and China.
- Assisted with the initial evaluation of data warehousing applications.
- Assisted with management of implementation vendor.
- Consulted for 30 months; Tech: Oracle, DB2, BEA, Matisse, Netscape, Apache, C, C++, Win2K, Data Warehousing, Access, Filemaker, MS Project.

1994-1995 Bond Analyzer Product Development

MCSA Product Development

Researched, designed and implemented hand-held fixed-income analysis tool based on the Apple Newton.

Mark Sieber

- Implemented support for Treasuries, Corporates, Municipals, PIKs, STEPs, zero-coupon and callable bonds.
- Designed and coded proprietary valuation algorithms for PIK & STEP bonds.
- Implemented support for ticket generation and horizon analysis.
- Implemented standard single-value statistics (yields, durations, convexity, spreads, accrued interest, day counts, etc).
- Designed and wrote marketing materials and user manual.
- Tech: Newton, NewtonScript, Mac/OS9, Quark

1991-1992 Software Development Mentor & Analyst

European Organization for Nuclear Research (CERN)

Assisted with the analysis, design and product evaluation for CORTEX, a real-time control system architecture for high-energy particle detectors.

- Mentored staff in analysis and software application design techniques.
- Assisted in the evaluation of OOA/OOD tools, CASE tools and OO database systems.
- Evaluated O2, Eiffel, Gensym, Gemstone.
- Co-authored drafts of research papers
- Research Associate for 6 months

1990-91 Vice President, Director of European Development for GTS

CitiCorp

Responsible for development and deployment of multiple European projects, as well as technical and operational support for European sites. Responsible for five direct and 25 indirect staff in three countries.

- Directed the development and deployment of the MIDAS trading system for the German financial market. System was delivered on time and on budget.
- Guided and coordinated efforts of developers in New York, New Jersey and London.
- Managed implementation and customer service staff in Frankfurt.
- Coordinated testing and initial deployment of MIDAS in Frankfurt Germany with local business operation, "free" brokers and Citibank Frankfurt.
- Prior to my hiring, the project was considered to be in trouble because of disagreements between the dispersed developers and conflict between the developers and the business staff.
- Rationalized network and telecoms usage; reorganized staff to order, support, and coordinate telecoms usage in a coherent fashion.
- Responsible for vendor RFP's, vendor trials, evaluation and selection.
- Citicorp employee for 18 months; Tech: Vax/VMS, Windows, X.25, DECNET, Proprietary Electronic Trading & Data Feed Platforms

1984-1990 Consultant *(continued)*

MCSA Technology Solutions

1988-1990 Fixed-Income Analysis, Design, Development & Integration

The Putnam Companies

Analyzed, designed and directed the automation of Putnam's high-yield fixed-income fund group. Reported to head of Fixed Income.

- Advised senior management on automation issues.
- Evaluated vendors of portfolio analysis, management and trading applications.
- Analyzed and formulated automation strategy for fixed-income group.
- Developed prototype applications.
- Designed and implemented applications for high-yield fund management.
- Supported and advised high-yield group.
- Coordinated with in-house development groups.
- Consulted 24 months; Tech: Windows, DecStation/Ultrix, Paradox, Sybase, Foxpro, Lotus 123, Excel.

1987-1988 Market Data Server Design & Development

C&P Technology

Designed internals for C&P's digital market-feed system and managed implementation team. Responsible for the development of data-feed interfaces, queue and buffer processing, data caching and index management. Hired and managed development team. This system was installed on the Chase trading floors in New York and London. Reported to President of C&P.

1985-1989 FX Application Design, Development & Deployment

Chemical Bank/FXNET

Designed, developed and deployed FXNET - a foreign exchange deal confirmation and payment netting system - for a consortium of major banks based in London. Each site has a node that performs local processing and communicates to other nodes via X.25; the system is completely distributed, having no central clearing location. Used by over 23 major banks at 45 sites located in London, New York, Tokyo, Singapore and Zurich. Reported to head of FXNET consortium.

- Co-designed application
- Established Boston office for development, hired & trained development team; managed development in Boston & London.
- Relocated development team to London.
- Implemented SWIFT message processing.
- Implemented interfaces to internal bank systems (IBM 3090, AS400, VAX, and NCR) via DECNET, SNA, 3270, X.25 and 3780.
- Implemented application logic.
- Directed initial application testing and deployment in London; Coordinated and trained local development and support organizations

1984-1985 ISI Systems Corporation (Grumman)

Insurance Application Design & Development

Recommended ways to improve organization, project management and resource usage. Managed development; assisted in the design and development of its applications. As a result of my efforts, ISI developed a PC-based software product in five months that had been stalled for the previous year.

1980 - 1984 Founder and Vice President

Synergistic Communications Inc.

A designer and developer of Citibank's MINISWITCH, which integrated message switching, EFT and message entry. The system supported Telex, asynch protocols, 3270 and SNA. MINISWITCH was deployed to Belgium, London, Zurich and Puerto Rico

- Designed and implemented modules for funds transfer, transaction and memory management.
- Directed development. and deployment for Puerto Rico and Zurich.
- Designed and implemented operator interface, OS interfaces, report generation and overlay management.

1977-1980

1977-1979 TMI Inc., Programmer

Programmer on Citibank's money-transfer message repair application (MEDIC).

1977 Harvard University

Graduated with A.B. in Physics. Implemented ECL (similar to ALGOL-60) on a PDP-11/UNIX system using BLISS.

Expertise, full list

Roles

Program Manager
 Project Manager
 Software Architect
 Software Engineer
 Business & Systems Analyst
 Mentor
 Entrepreneur
 Troubleshooter

Responsibilities

App. Design & Development
 Prod. Development & Deployment
 P&L, Budget Management
 Vendor, RFP & Contract Mgmt.
 System Integration
 Process Analysis & Modeling
 Data Analysis & Modeling
 Design & Code Review
 Quality Assurance
 Staffing
 Technical & User Documentation
 Service & Technology Evaluation

Other

Rudimentary fluency in German.

Applications

Trading Systems
 Fixed-Income Analytics
 Portfolio Mgmt. & Analysis
 Market Data Servers
 Foreign Exchange
 Derivatives Analytics
 Electronic Funds Transfer
 Message Switching
 Digital Video
 Real-time control systems
 E-Commerce

Clients

Worked with and for diverse organizations: large banks, research institutes, phone companies, mutual funds, high-tech ventures and consulting firms such as:
 Citibank, FXNET
 Fidelity, Putnam
 NYNEX/Bell Atlantic
 Sprint
 Sapient
 CERN (European Organization for Nuclear Research)

Technology

Windows, Unix (Mac OSX, AIX, Ultrix), VMS, RSX11, RPS
 PC, Mac, RS/6000, DecStation, VAX, PDP11, Series/1, PDP8, PDP10
 TCP/IP, DECNET, X.25, 3270
 Bloomberg TOMS, Sybase, Oracle, Access, Filemaker, Paradox, FoxPro, Gemstone, 4D
 Word, Excel, PowerPoint, Project, Sharepoint, Photoshop
 C, Java, PERL, Visual Basic, JavaScript, HTML, XML, AppleScript, C++, Newton Script, PASCAL, BLISS, ECL, FORTRAN, LISP, Assembler
 ISO 9001, SDLC, RUP, UML, Yourdon / DeMarco, CORBA, SWIFT, YACC, LEX, MMS, CMS, AWK

International

Worked in London, Brussels, Frankfurt and Geneva; I have directed dispersed projects: e.g. I coordinated development in London, New York and New Jersey for deployment in Frankfurt.

Summary of Major Engagements

2007	Fidelity	Trading Systems	Technology Management for Fixed-Income trading applications.
2006	MCSA	Options Trading & Research	Equity & Options trading; Tech Research; App. Development.
2004	LLGM	ERP Litigation	Tech Expert; deduced that defendant was hiding key docs.
2004	InTouch	Voice Recognition	Pgm and Vendor management, QA for Sprint's "Voice Command"
1998	Bell Atlantic	E Commerce, Application Integration	Troubleshooter for CIO; Manager, Developer & QA for "Big Yellow" e-commerce portal. Integrated Web, DB, A/R, Credit Card & Billing
1995	MCSA	Fixed-Income Analysis Tools	Researched, designed, developed & documented "Bond Analyzer"
1992	CERN	Real-time Control Systems	Consultant for software design for LHC Detector Control
1991	Citicorp	Electronic Trading, Data & FX	VP, Director European Development for Global Treasury Systems
1990	Putnam	Investment Mgmt & Analysis	FI Analysis, Design, Vendor Evaluation & Prototype Development
1989	FXNET	Foreign Exchange Networks	FXNET Principal Developer; deployed system to Europe & NYC
1988	C&P	Market Data Distribution	Large-scale trading-floor data server development.
1984	Synergistic	Message Switching, Banking Systems	VP & Founder, Synergistic Communications; MiniSwitch design, development and deployment to Europe & US for Citibank.
1977	Harvard	Physics & Computer Science	A.B. Physics; implemented ECL in BLISS on PDP-11