

# David HM Spector

7070 WESTMOORLAND DRIVE  
BERKELEY, CA 94705

voice +1 415.480.0313 ~ spector@zeitgeist.com ~ mobile +1 631.827.3132

[www.linkedin.com/in/davidhmspector](http://www.linkedin.com/in/davidhmspector)

- 20 year history of hands-on technology innovation for major financial institutions, technology firms, and startups
- Hands-on, in-depth developer & experienced manager. Able to bridge the gap between business needs/goals and technological realities
- Tech Leader of several startups and due diligence expert called on by several venture capital firms
- Excellent communicator: columnist and freelance writer for major publications

## Summary of Qualifications

- Active programmer with up-to-date technology expertise, which enables me to take a hands-on approach to problem solving at all levels of a project from planning, to development prioritization and execution
- Proficient at generating actionable product/services ideas/specifications and instantiate/productize them
- 15+ years experience developing and managing agile, cohesive development/support teams and delivering product/services on time and on budget while retaining security, scalability and reliability
- Expert in technology transfer and education of executives and others on technology trends
- Experienced researcher with in-depth experience in technology due diligence for venture capital firms
- Hands-on technology innovator with over 20 years of industry experience/connections; able to attract and develop and retain world-class talent

## Technical Expertise

- Active Mac OS X and iPhone developer
- Expert in C, Objective-C, Java, Ruby/Rails, Perl, and other dynamic/scripting languages as well as Source Code Management systems (RCS, SVN, Git, etc) and multiple development environments
- Expert in the development/deployment of virtualized services including Amazon EC2/S3
- Expert in the design and development of advanced web apps/services/systems (client side, server side, CSS/HTML/AJAX, APIs, etc) using Object Oriented analysis and techniques
- Expert in Unix/Linux development, deployment, integration and support issues
- 20+ years experience in programming of Unix/Linux, Macintosh Systems
- 15+ years experience in design and implementation of network security strategies, policies and systems
- Due-diligence expert called upon by several VCs to analyze potential portfolio companies
- Expert in the development of Wireless Internet (802.11) infrastructures, systems and services
- Extra Class Amateur Radio License since 1979, active in emergency services communications and the design of wireless emergency communications systems/networks using voice, digital and satellite technologies

## Open Source Contributions

- RIFE Full-Stack Framework ([www.rifers.org](http://www.rifers.org)) - Documentation and Example Code
- SourceForge/GNU Savannah/GForge - Portability Patches, documentation

## Publications and Speaking/Conference Engagements (portfolio available on request)

- DropZone Networks was the 2004 DEMOMobile wireless startup ;one of the Red Herring “Top100 Startups”
- *Linux in the Enterprise* columnist at The O’Reilly Network/O’Reilly Media (1999 – 2004)
- Feature writer and blogger for C|Net’s Tech Republic
- Freelance writer for WiReD Magazine, InformationWeek, Fortune, and other publications
- Invited speaker at industry conferences and organizations (802.11 Planet, NYSIA, SIA, etc.)

## Employment History

2/2006 – Present

### **Owner, Zeitgeist Information Systems (software development and IT consulting company), Berkeley, CA**

Provide infrastructure, software development and analysis/research services to a variety of clients, including:

- For *XEODesign, Oakland, CA*: Architect/Developer of Rails-based web-scale Amazon EC2/S3 Linux-based virtualized system and Objective-C support frameworks for iPhone gaming back-end support system
- For *4Profit, LLC SF/NYC*: Architect/Developer of custom Rails-based high-end business profitability analysis web service (www.prof-fit.com),
- For *NELA Partners, San Francisco, CA*: Architect/Developer of the social networking application *Never Eat Lunch Alone* - a “web 2.0” application written in RIFE (a full-stack Java application framework) + AJAX technology that uses advanced location-based services to allow users to create and syndicate social/business events from browsers and mobile devices
- For *Markinekt, Los Angeles/NYC*: Designed specialized VPN network for distributed recruiter network based on customized embedded firewalls supporting VoIP, fire sharing and email.
- Contract developer of various iPhone applications and frameworks for business, productivity & gaming
- For *Draper, Fisher, Jurvetson/DFJ Gotham Ventures, Palo Alto/NYC*: provided due diligence analysis on a variety of potential portfolio companies

9/2004 to 2/2006

### **Senior Technologist, Corporate Technology Office, Bear Stearns & Co., New York**

- Senior technologist, responsible for creating, syndicating and implementing a business-centric model for support of traders and back-office clearing operations that reduced overall support costs by 50% over the stand-alone support groups previously run by the business units themselves
- Used parallel/grid computing experience to aid in the development of C/Java based scalable virtualized computing platforms for real-time program trading that enabled hundreds of analytic and trade processing nodes to be created/destroyed on the fly to meet peak trading demands
- Conceived/designed NTP-based high-precision trading platform to implement time-based (sub-millisecond) trading arbitrage
- Designed new SAN storage products, which reduced Equities Program Trading Group’s storage costs to 1/10 of previous costs, saving over \$10MM in storage costs per year
- Designed/implemented Java/Shell based systems performance and trending tools to enable the firm to assess current system utilization and future needs

1/2001 to 9/2004

### **Principal Technologist, DropZone Networks, New York**

Developed new form of wireless access point that is solar charged and battery operated for outdoor wireless network deployments. The technology allows wireless operators, communications companies and enterprises to quickly and inexpensively deploys wireless networks (802.11a/b/g, microwave, 3G, WiMAX, etc.) and includes specialized technologies that allow applications to be run on the network fabric/infrastructure itself making network applications more flexible and reducing back-end infrastructure requirements.

*DropZone Networks was the 2004 DEMOMobile featured wireless startup & in the Red Herring “Top100 Startups”*

12/99 to 11/2000

### **Principal Technologist, TradingNews/M4logic, Inc., New York**

Designed and implemented the infrastructure and team to implement and deploy an advanced technical analysis service to be use by individual investors and institutional professional traders. Designed a Linux-based Beowulf supercomputer using C & MPI parallel cluster to perform advanced technical analysis of stocks and other financial instruments.

10/96 to 1/99

**Senior Technologist, Sharp Decisions, Inc., New York**

Provided technical expertise and analysis to management in all aspects of contract consulting efforts of multi-million dollar consulting services company. Responsible for the personal care of key financial clients including Citibank and Salomon Brothers including verification of firewall and network security systems & policies; design of on-line applications and conversion of legacy systems to WWW environments. Advisor/Consultant to Sun Microsystems on service-level gap analysis with regard to IBM Global Services US\$11B technology outsourcing from Lucent Technologies.

12/95 to 10/96

**Vice President, Long Term Advanced Development Group, Citibank, New York**

Recruited from J.P. Morgan & Co. to capitalize on Internet and WWW as a delivery mechanism for Citibanking products and services. Proposed utilizing available Internet technology to provide virtual business meeting environments to reduce business travel. Analyzed the business of the consumer bank, recommending ways in which early internet technology could be used to provide consumer information, consumer banking products, and account management remotely to customers. Provided technical expertise to Citibank units on Internet Technology issues.

4/92 to 12/95

**Vice President, Internet Services Group, J.P. Morgan & Co., New York**

- In 1991 (while a consultant), brought The Internet into J.P. Morgan as a bank-wide resource for use by developers, support teams, and business units. Created/managed the JP Morgan Internet Services Group that placed the firm as the first money center bank on the Internet.
- Developed support systems/services that saved the firm over \$50MM per year in technology support costs by using the Internet to speed problem resolution with the firm's thousands of vendors/suppliers.
- In charge of the infrastructure services group that led the design, implementation and deployment of distributed UNIX systems (C, Shell, Perl, etc) and services strategies for business units at the firm.
- Provided research funding for and technical expertise and code to UIUC "Mosaic" developers (original Netscape team) on implementation of security system of the original Mosaic application.
- Led team that delivered firm's RiskMetrics Value-at-Risk modeling system over the Internet
- Re-architected firm wide TCP/IP network, replacing business unit level networks with a single, unified, worldwide coordinated network. Improved availability, reliability, and support, resulting in significant reduction in downtime and cost of services.
- Designed and implemented custom secure firewall systems and associated policies/practices to connect the firm to The Internet and to the networks of clients and business partners.
- Developed UNIX based electronic mail system that served as message switch for over 14,000 email users worldwide. Replaced multiple incompatible department level mail systems, enabling firm wide electronic communication for the first time.
- Wrote and contributed to numerous white-papers on various topics ranging from the design of on-line distributed information archives to the development of firm-wide coding standards to ensure software integrity, and portability.

***Press Coverage***

- Interviewed for various publications on topics ranging from parallel Linux clusters to wireless network design and deployment.
- Featured in FORTUNE magazine articles on corporate users of the Internet
- Featured in Information Week that described my work at JPMorgan as one of the "Internet Pioneers" in getting businesses on the Internet.
- Featured in various articles regarding my design of the firm's public Internet services system in The Wall Street Journal, and in industry publications such as Information Week and Communications Week.
- Profiled in Doing Business on the Internet a book on pioneering Internet users by Dr. Mary Cronin of Boston University (Van Nostrand Reinhold, 1994)