

## **John Levy, Ph.D.**

P.O. Box 1419, Point Reyes Station, CA 94956

415 269-4096 <http://johnlevyexpert.com> [info@johnlevyexpert.com](mailto:info@johnlevyexpert.com)

### **SUMMARY OF EXPERIENCE**

Dr. Levy is a technical leader in the computer, software and storage industry with over thirty years' experience; Ph.D. in Computer Science from Stanford University.

Areas of expertise include:

- Bus design – system bus - local area network (LAN)
- Bus standards - ATA – ATAPI – IDE - 1394 FireWire - SCSI
- Computer design – CPU – multiprocessor – input/output – I/O controller
- Memory design – memory controller – cache
- Hard disk – RAID – storage network – SAN – NAS – distributed storage
- Software – firmware – software development
- Operating system - file system – file server – file access protocol
- Simulation - performance - benchmark

Inventor on seven patents and author of a book and several published technical papers. Engaged as an expert in over 60 cases including at least 5 involving IPRs, deposition and trial testimony; technical advisor to two Fed. District Court judges.

### **PROFESSIONAL EXPERIENCE**

**1999 to Present**      **John Levy Consulting**  
**and 1982 to 1992**      Management Consultant

Managing development of computers, software and storage devices.  
General business consulting for small firms, both for-profit and nonprofit.  
Expert witness in intellectual property and contract dispute litigation.

**1993 to 1998**      **Quantum Corporation**  
Director, Systems Engineering

Hired and managed an engineering organization of 27 people; Made Quantum a leader in hard disk interface technology - ATA/33, /66, SCSI-160M; Developed software/hardware tools for firmware & system validation; Led disk drive performance enhancements in caching, system performance modeling and simulation, Windows software drivers; Member of strategic planning team.

**1979 to 1982**      **Apple Computer, Inc.**  
Engineering Supervisor

Hardware & firmware development of local area network on Lisa team;  
Design of hardware/firmware interpreter for Pascal p-machine processor.

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**1977 to 1979**            **Tandem Computer, Inc.**  
Senior Engineer

Advanced development of next-generation multi-processor systems;  
Study of rollback-recovery in distributed databases.

**1972 to 1977**            **Digital Equipment Corp.**  
Consulting Engineer

Design of computer processor hardware & operating system software; Design of  
Input/Output subsystems, distributed systems, distributed storage systems; Design  
of buses for high-speed I/O channels and for minicomputer systems.

### **EDUCATION**

Ph.D., Computer Science, Stanford University, 1973

M.S., Electrical Engineering, California Institute of Technology, 1966

B. Engineering Physics, Cornell University, 1965

**LITIGATION RELATED EXPERIENCE** – Please see separate summary

### **PUBLICATIONS**

***Get Out of the Way: How to Manage Development of Timely, Innovative and Relevant Products***, Cupertino, CA: Happy About Publishing, May, 2010

**If Extreme Programming is Good Management, What Were We Doing Before?** *EDN Magazine*, November 13, 2003.

**Twelve Things to Ask Your Software Development Team**, *ComputerWorld Online*, September 22, 2003.

**A File Structure for Non-Erasable Media**, with Wayne Wang, *Ninth IEEE Symposium on Mass Storage Systems*, pp. 72-76, 1988.  
also published as “An Operating System-Independent WORM File System” in *Software for Optical Storage*, Meckler Corp., 1989, pp. 23-54

**Small Image Retrieval System**, with Wayne Wang, *Ricoh Technical Report No. 16*, pp. 93-95, 1987.

**Buses, the Backbone of Computer Structures**, in *Computer Engineering (Chapter 11)*, by Bell et al. (editors), Digital Press, 1978.

**Computing with Multiple Microprocessors**, (Ph.D. Thesis)  
*Stanford Linear Accelerator Center Report No. 161*, 1973

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### U.S. PATENTS

<u>Patent Number</u>	<u>Year Issued</u>	<u>Title</u>
4,245,303	1981	Memory for Data Processing System with Command and Data Buffering
4,229,791	1980	Distributed Arbitration Circuitry for Data Processing System
4,232,366	1980	Bus for a Data Processing System with Overlapped Sequences
4,045,781	1977	Memory Module with Selectable Byte Addressing for Digital Data Processing System
4,007,448	1977	Drive for Connection to Multiple Controllers in a Digital Data Secondary Storage Facility
3,999,163	1976	Secondary Storage Facility for Data Processing Systems
3,911,400	1975	Drive Condition Detecting Circuit for Secondary Storage Facilities in Data Processing Systems

### PROFESSIONAL AFFILIATIONS & AWARDS

Association for Computing Machinery

Institute of Electrical and Electronics Engineers:  
Computer Society – *National Lecturer on bus design*

Forensic Expert Witness Association

### UNIVERSITY-LEVEL TEACHING

#### University of San Francisco, Fromm Institute for Lifelong Learning

2017	Artificial Intelligence in the World
2016	Artificial Intelligence and You
2015	Navigating the Digital World
2014	Innovation & Computers in the Modern World
2013	The Meaning of Life in the Digital World
2012, 2010, 2008, 2006	The Digital Revolution in the Home
2011, 2009, 2007, 2005	Computers - the Inside Story

#### San Francisco State University

1980-81 Computer Input/Output Architecture