

**Silicon Valley Expert Witness Group, Inc.**  
**Consultant Curriculum Vitae**

**David A. Wilson, Ph.D.**

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**Expertise**

- IP Litigation: Expert Witness and Expert Consultant
  - Object-Oriented Programming
  - Java technologies on the server and client
  - C++, Smalltalk, Objective-C, and other object programming languages
  - XML/SOAP Web Services
  - Microsoft .NET Technologies
  - Integrated Development Environments and programmer tools
  - Distributed Computing, including CORBA and Java RMI
  - Graphical User Interfaces and user interface design
  - Software Development Processes and Practices
  - Software Reuse
  - Software Frameworks and Design Patterns
  - Artificial Life technologies such as Genetic Algorithms
  - Visual Programming Languages
  - Digital Cameras
  - Ultrasonic Imaging Systems for Medical Diagnosis
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**Professional Summary**

Over twenty years experience at developing and teaching advanced technologies. Co-developed a number of innovative software products, including a dataflow-based visual programming language for doing complex numeric and financial calculations, two C++ applications frameworks, various Java tools for managing billing systems, and a Java-based prototype of an automated teller machine. I have also developed numerous Objective-C based applications sold for use on the Apple iPhone.

Helped developed a number of innovative hardware products, including a real-time UV-Visible Spectrophotometer, and numerous real-time ultrasonic imaging systems for medical diagnosis.

Written hundreds of pages of expert reports and affidavits. Deposed in copyright infringement/theft of trade secrets, patent infringement, and contract dispute cases. Testified in a Federal mediation hearing. Testified under oath and cross-examined in arbitration hearing. Testified in Federal Court in a case involving patent infringement, misappropriation of trade secrets, and breach of contract.

# Silicon Valley Expert Witness Group, Inc. Consultant Curriculum Vitae

## Employment History

- From: 1983      **Independent Consultant**  
To: Present      San Jose, CA
- Highly experienced technology consultant specializing in object-oriented development.
  - Provides technical expertise to law firms specializing in intellectual property litigation.
  - Software development using a variety of programming languages, including Java, C++, Objective-C, Smalltalk-80, and Object Pascal.
  - Developed multiple native applications for the Apple iPhone, including *BuySellRent*, *BuySellRent Lite*, *SpinCalc*, and *Deadlines*. These are all being sold in multiple countries through Apple's App Store.
  - Co-developed *Spreadsheet 2000*, an innovative application that provided the user with a visual programming language for performing complex numeric calculations and financial modeling.
  - Co-developed *QuickApp*, a C++ applications framework used to develop a number of commercial Macintosh applications.
  - Co-developed *MicroGA* – a C++ framework for solving optimization problems using the artificial life technique known as Genetic Algorithms.
  - Projects for major clients described below.
- From: 2000      **Portal Software, Inc.**  
To: 2002      Cupertino, CA  
Title: *Senior Architect*
- Architected and developed Storable Class Editor and other Java-based client applications that allow customization of Portal's real-time billing system.
  - Architected and prototyped various systems monitoring and management tools.
  - Architected and prototyped an XML/SOAP-based Web Service to support Portal's *Infranet Content Connector*.
  - Member of the Architecture Steering Group.
  - Defined the software development process used throughout the Product Development organization.
  - Lived in Germany for five months, helping with technology transfer between Portal's European and US-based product development organizations.
  - Helped drive Engineering's mentoring program; helped

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engineers with career and personal development.

- Developed and presented in-house training on Java, CORBA, O-O Frameworks, XML Web Services, and other subjects.

From: 1999      **Sun Microsystems, Inc.**  
To: 2000      Palo Alto, CA  
Position: *Contractor*, developing advanced Java programming classes

- Developed the first hands-on Jini and JavaSpaces programming “Code Camps”. Invented a technique for dynamically assembling GUI applications from independent Jini services.
- Developed Sun’s first “Code Camp” on Java performance tuning. Showed how to make Java clients and servers run faster using performance profiling tools and code optimization.
- Trained three other trainers on how to develop courses and give effective technical presentations.

From: 1998      **Sun Microsystems, Inc.**  
To: 1998      Palo Alto, CA  
Position: *Contractor*, developing a prototype Accessible Automated Teller Machine (ATM)

- In late 1998, Sun introduced their “Java 2” technology with a special press presentation at the Java Business Expo in NYC. Developed a prototype *Accessible ATM* for that introduction that featured voice synthesis (for blind users), high-contrast screen display modes (for visually-impaired users), and support for 10 languages including Chinese, Japanese, and Korean. This system was demo’ed on stage by a blind user (and her Guide Dog). User preferences were programmed into a Java Ring using the JavaCard APIs.

From: 1994      **Apple Computer, Inc.**  
To: 1996      Cupertino, CA  
Position: *Contractor*, in charge of all programmer training for the OpenDoc Development Framework (ODF)

- Developed and taught 5-day class on using C++ and ODF to develop new OpenDoc components.
- Wrote many ODF sample programs that were shipped with the product itself.

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From: 1989      **Apple's Pink Project (became Taligent, Inc.)**  
To: 1994      Cupertino, CA  
Position: Contractor, in charge of programmer training and sample programs

- Hired as the first contractor for Apple's super-secret Pink project to develop C++ sample programs and assemble hands-on programming classes for new employees, and eventually, for third-party developers.
- Continued in this role when Apple and IBM formed their \$200 million Taligent joint venture.
- Developed a 3-day class on *Writing Reusable C++ Frameworks*, and presented it all over the US, in the UK, in Australia, and at IBM's Yamato Research Labs outside of Tokyo.

From: 1988      **Xerox and ParcPlace Systems**  
To: 1988      Palo Alto, CA  
Position: *Contractor*, developing Smalltalk programming classes

- Developed the first ParcPlace programmer training classes for Smalltalk-80.

From: 1984      **Apple Computer, Inc.**  
To: 1989      Cupertino, CA  
Position: *Contractor*, developing Macintosh programmer training and sample programs.

- Developed Apple's classes on Macintosh programming. Trained other trainers to help build Apple's "Developer University".
- Trained developers on using Pascal and C to do procedural programming using the Macintosh Toolbox.
- Developed Apple's classes on using Object Pascal and C++ for object-oriented programming using the *MacApp* applications framework.

From: 1978      **SRI International**  
To: 1983      Menlo Park, CA  
Position: *Member of the Technical Staff*

- Developed research instruments for medical diagnosis and therapy for the National Cancer Institute and the National Heart, Lung, and Blood Institute.

*Director, Bio-Engineering Research Center*

- Managed a team of 15 researchers in developing new products for biomedical research and ultrasonic imaging.

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From: 1970      **Hewlett-Packard Laboratories**  
To: 1978      Palo Alto, CA  
Position: *Member of the Technical Staff*

- Helped invent and develop a new real-time Ultraviolet-Visible Spectrophotometer for chemical analysis using an Acoustically-Tuned Optical Filter.
- Researched and started H-P's first project on real-time, two-dimensional, B-Scan ultrasonic imaging for medical diagnosis. This eventually led to a series of products with which H-P became the world leader in cardiac ultrasonic imaging.

From: 1966      **IBM Federal Systems**  
To: 1966      Endicott, NY  
Position: *Summer Intern*  
Developed calendar routines in assembly language for the IBM 7094 mainframe computer.

From: 1965      **Stanford University**  
To: 1970      Palo Alto, CA  
Position: *Research Assistant, Applied Physics*  
Research on interaction of high frequency ultrasonic waves, magneto-optic waves, and infrared lasers. Research sponsored by Office of Naval Research.

### **Litigation Support Experience**

Date: 2009      **Skadden Arps**  
Case      Versata v. Sun Microsystems: Patent infringement; misappropriation of trade secrets; breach of contract  
Technologies      Software configuration systems  
Client      Sun Microsystems  
Role:      Testifying expert regarding non-infringement, trade secrets, breach of contract. Performed detailed product and Java source code analysis.  
Status:      Testified at trial in Marshall, TX before Judge Ward. Jury found for defendant Sun Microsystems on all claims.

Date: 2009      **Kilpatrick Stockton**  
Case      Datasci v. Quintiles: Patent infringement  
Technologies      Collecting clinical data for drug or medical device studies  
Client      Quintiles  
Role:      Testifying expert  
Status:      Settled

**Silicon Valley Expert Witness Group, Inc.  
Consultant Curriculum Vitae**

Date: 2008                   **Venable LLP**  
Case                        Patent infringement; theft of trade secrets and copyright infringement  
Technologies            Mobile IP telecommunications software  
Client                     Confidential  
Role:                     Testifying expert; source code analysis; software development process  
Status:                    Ongoing

Date: 2008                   **Shook, Hardy, and Bacon**  
Case                        Mediware v. Korchek: Theft of trade secrets  
Technologies            Blood bank software  
Client                     Mediware  
Role:                     Testifying expert. Wrote rebuttal expert report.  
Status:                    Settled

Date: 2008                   **Klarquist Sparkman**  
Case                        Patent infringement  
Technologies            Graphical User Interface  
Client                     Microsoft v. Sklar  
Role:                     Testifying expert re invalidity for plaintiff.  
Status:                    Settled

Date: 2007                   **DLA Piper**  
Case                        Software development Contract dispute (Arbitration)  
Technologies            Network management software  
Client                     Packeteer v. Valencia Systems  
Role:                     Testifying expert; source code and database analysis; software development process  
Status:                    Completed

Date: 2007                   **Dechert LLP**  
Case                        Patent Infringement  
Technologies            Graphical user interface research  
Client                     Gateway v. Lucent  
Role:                     Consulting expert; prior art research  
Status:                    Ongoing

**Silicon Valley Expert Witness Group, Inc.  
Consultant Curriculum Vitae**

Date: 2007                    **Blank Rome LLP**  
Case                        Patent Infringement  
Technologies            Telecommunications billing software; source code in multiple  
   languages; relational databases  
Client                        Centillion v. British Telecom  
Role:                        Consulting expert; source code and database analysis  
Status:                      Ongoing

Date: 2006-2007            **Dorsey & Whitney LLP**  
Case                        Patent Infringement  
Technologies            Wireless email software for smart phones; source code analysis;  
   SSL security  
Client                        Sproqit Technologies  
Role:                        Testifying expert  
Status:                      Settled

Date: 2006-2008            **Drier LLP**  
Case                        Patent Infringement; Theft of trade secrets  
Technologies            Rich Internet Applications software  
Client                        Confidential  
Role:                        Testifying expert  
Status:                      Ongoing

Date: 2005-2008            **Blank Rome LLP**  
Case                        Patent Infringement  
Technologies            Telecommunications billing software; source code in multiple  
   languages; relational databases  
Client                        Centillion v. Qwest and Convergys  
Role:                        Consulting expert; source code and database analysis  
Status:                      Ongoing

Date: 2006-2007            **Blank Rome LLP**  
Case                        Patent Infringement  
Technologies            Telecommunications billing software; source code in multiple  
   languages; relational databases  
Client                        Centillion v. Cincinnati Bell  
Role:                        Consulting expert; source code and database analysis  
Status:                      Ongoing

**Silicon Valley Expert Witness Group, Inc.  
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Date: 2005-2006      **Skadden Arps**  
Case                    Patent Infringement  
Technologies        Medical claims processing software; databases; expert systems  
Client                   McKesson v. The TriZetto Group  
Role:                    Testifying Expert Witness re patent validity; Wrote rebuttal  
Expert Report; Deposed in 2005.  
Status:                  Settled in favor of client

Date: 2004              **Fish & Richardson**  
Case                    Patent Infringement  
Technologies        Visual Programming Languages  
Client                   National Instruments v. Software  
Role:                    Testifying Expert Witness  
Status:                  Settled

Date: 2004-2007      **Lewis & Roca**  
Case                    Trade secret/copyright Infringement  
Technologies        Nuclear medicine software; C++; Pascal; Databases  
Client                   Biodose & Biotech Pharmacy v. Cardinal Health 414, Inc.  
Role:                    Testifying Expert Witness; Application & source code analysis.  
Testimony            Deposed in May 2005  
Status:                  Summary judgment in favor of client; counterclaims pending

Date: 2004              **Reed Smith**  
Case                    Trade secret/copyright Infringement  
Technologies        Data mining software  
Client                   Informatica v. PeopleSoft  
Role:                    Testifying Expert Witness – technology analysis  
Status:                  Settled

Date: 2004              **Blank Rome**  
Case                    Patent infringement  
Technologies        Telecommunications billing systems  
Client                   Centillion Data Systems v. CallVision  
Role:                    Expert witness – code analysis and claim construction.  
Submitted affidavits; wrote expert reports  
Status:                  Settled

Date: 2003              **Kirkland & Ellis**  
Case                    Federal Mediation re Boston “Big Dig” contract dispute  
Technologies        Software development process; Traffic systems  
Client                   Honeywell Technology Solutions v. Massachusetts Highway  
Department

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Role:	Testifying Expert Witness re: software development process. Wrote expert reports
Testimony	Testified before Federal Mediators
Status:	Settled
Date:	2002
Case	<b>Wilson Sonsini Goodrich &amp; Rosati</b> Patent infringement
Technologies	Compound document systems
Client	<u>Sun Microsystems</u> v. Kodak
Role:	Prior-art research and analysis
Status:	Completed
Date:	2000 - 2001
Client	<b>Howrey Simon Arnold &amp; White</b> Sun Microsystems
Project:	Patent/technology survey
Status:	Completed
Date:	1998 - 1999
Client	<b>Howrey Simon Arnold &amp; White</b> Sun Microsystems
Project:	Patent/prior-art research
Status:	Completed
Date:	1997
Client	<b>Howrey Simon Arnold &amp; White</b> <u>Apple Computer</u> v. Articulate Systems
Project:	Patent infringement, created expert reports and affidavits
Status:	Completed

### Education

<u>Year</u>	<u>College/University</u>	<u>Degree</u>
1970	Stanford University	Ph.D., Applied Physics
1967	Stanford University	MS, Applied Physics
1965	Cornell University	BS, Engineering Physics

### U.S. Patents

<u>Patent Number</u>	<u>Date Issued</u>	<u>Title</u>
4,482,834	11/13/1984	Acoustic imaging transducer
4,471,785	09/18/1984	Ultrasonic imaging system with correction for velocity inhomogeneity and multipath interference using an ultrasonic imaging array
4,446,740	05/08/1984	Frequency controlled hybrid ultrasonic imaging arrays
4,442,713	04/17/1984	Frequency varied ultrasonic imaging array

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## Consultant Curriculum Vitae

### Commercial Software Products

- *Buy, Sell, Rent*. Real estate application for Apple iPhone, sold through Apple's App Store starting in 2008.
- *SpinCalc*. Kid's math application for Apple iPhone, sold through Apple's App Store starting in 2009.
- *Deadlines*. Productivity application for Apple iPhone, sold through Apple's App Store starting in 2009.
- *Spreadsheet 2000*. A Macintosh application published in 1997 by Casady & Greene. ISBN 1-56482-141-2
- *Keep It Simple Spreadsheet*. A Macintosh application published in 1996 by Casady & Greene. ISBN 1-56482-101-3
- *QuickApp*. A C++ applications framework published by Emergent Behavior in 1993.

### Publications (1982 to Present)

- Wilson, David A., *The Java Guidelines – Creating fast, maintainable, reliable, portable Java programs*, published internally by Visa International in 1999 for use by their engineering teams.
- Wilson, David A., et al., *C++ Programming With MacApp*, Addison-Wesley, 1990, ISBN 0-201-57021-1.
- Wilson, David A., et al., *Programming With MacApp*, Addison-Wesley, 1990, ISBN 0-201-55062-8.
- Wilson, David A., *Class Diagrams: A Tool for Design, Documentation, and Modeling*,
  - Journal of Object-Oriented Programming, January/February 1990, pp. 38 – 44.
- Wilson, David, *The Sordid Truth About Apple: Why Don't Those Idiots Ever Do Anything Right*, MacTutor (now MacTech), December 1990.
- Wilson, David A., *Introduction to MacApp & Object Programming*, published by MacApp Developer's Association, April 1989.
- Wilson, David, *MacApp Objects*, MacTutor (now MacTech), September 1987, pp. 41 – 46.
- Goodin, Sue and Wilson, Dave, *Programming the New Macs*, MacTutor (now MacTech), May 1987.
- Wilson, David, *Resource Formats for Asm, Rmaker and Lisa*, MacTutor (now MacTech), June 1986.
- Wilson, David A., et al., *Practical BASIC Programs, IBM Personal Computer Edition*, Osborne/McGraw-Hill, 1982, ISBN 0-931988-80-2.

## **Silicon Valley Expert Witness Group, Inc. Consultant Curriculum Vitae**

### **Formal Conference & Panel Presentations, (1988 – Present)**

- Wilson, David A., *Getting Your Work Done & Writing Expert Reports*, Expert Witness Summit 2007, Newport Beach, CA, March 31, 2007.
- Wilson, David A., *Building Reusable Components for Java Studio Creator*, Sun's JavaOne Conference 2004, San Francisco, June 2004.
- Wilson, David A., *Doing Serious Java Development on Mac OS X*, Sun's JavaOne Conference 2003, San Francisco, June 2003.
- Wilson, David A., *A Framework for Assembling Client Applications from Modular Components*, Sun's JavaOne Conference 2002, San Francisco, March 2002.
- Wilson, David A., *Designing Object-Oriented Frameworks*, 7<sup>th</sup> IBM Conference on Object-Oriented Software Development, July 1994.
- Wilson, David A. and Wilson, Stephen D., *Writing Frameworks – Capturing Your Expertise About a Problem Domain*, Conference on Object-Oriented Programming Systems, Languages, and Applications (OOPSLA) 1993.
- Wilson, David A., *Developing a MacApp Application*, MacWorld Expo Tokyo, February 1991.
- Dan Shafer, David A. Wilson, Jeff McKenna, John R. Pugh, Adele Goldberg: *Panel: Teaching OOP*. OOPSLA 1988.
- Numerous Apple World-Wide Developer Conferences and Apple European Developer Conferences.

### **Professional Associations**

- Member, IEEE
- Tau Beta Pi Engineering Honor Society

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## **Silicon Valley Expert Witness Group, Inc.**

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