

**Silicon Valley Expert Witness Group, Inc.**  
**An LECG Company**  
**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. 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.

Excellent verbal and written communication skills. Written hundreds of pages of expert reports and affidavits. Deposed in a Federal copyright infringement case, and a patent infringement case. Testified in a Federal mediation hearing.

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## 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.
- 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 engineers with career and personal development.
- Developed and presented in-house training on Java, CORBA, O-O Frameworks, XML Web Services, and other subjects.

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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: 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:      Ongoing

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

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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: 2006-2007           **Confidential**  
Case                        Patent Infringement; Theft of trade secrets  
Technologies            Rich Internet Applications software  
Client                        Confidential  
Role:                        Testifying expert  
Status:                      Ongoing

Date: 2005-2007           **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

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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

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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)  
Role:                            Testifying Expert Witness re: software development process.  
   Wrote expert reports  
Testimony                    Testified before Federal Mediators  
Status:                         Settled

Date: 2002                    **Wilson Sonsini Goodrich & Rosati**  
Case                            Patent infringement  
Technologies                Compound document systems  
Client                           Sun Microsystems (v. Kodak)  
Role:                            Prior-art research and analysis  
Status:                         Completed

Date: 2000 - 2001         **Howrey Simon Arnold & White**  
Client                           Sun Microsystems  
Project:                        Patent/technology survey  
Status:                         Completed

Date: 1998 - 1999         **Howrey Simon Arnold & White**  
Client                           Sun Microsystems  
Project:                        Patent/prior-art research  
Status:                         Completed

Date: 1997                    **Howrey Simon Arnold & White**  
Client                           Apple Computer (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

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## **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

## **Commercial Software Products**

- *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.

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**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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For more information please contact:

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