

Brian A. Berg: Curriculum Vitae



Brian A. Berg
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EXPERIENCE SUMMARY

Brian A. Berg has extensive experience with consumer electronics, storage technology, Flash Memory (NAND, firmware architecture, Flash Translation Layer, cell management, embedded, memory cards, Solid State Disks, USB sticks), interfaces, backup/restore products, file systems, Optical Storage (CD, DVD, Blu-ray Disc, WORM, Magneto-Optical), Magnetic Storage (Hard Disk, Tape, Floppy), RAID/Disk Arrays, jukeboxes, cloud storage, Network-Attached Storage (NAS), data compression, data error detection and correction, error correcting codes (ECC), encrypted data, cryptographic hash functions, object-based storage, data deduplication, metadata; USB, IDE/ATA/ATAPI/SATA, Fibre Channel, NVMe, SCSI, iSCSI, FireWire/1394, PCMCIA and Storage Area Networks (SAN). Additional related experience includes Storage Area Networks (SANs), Ethernet, and data center fabrics. He also has experience with the Amazon Kindle and the Barnes & Noble Nook and their infrastructures, Android devices, device teardowns, benchmarking, Man-in-the-Middle (MITM) forensic analysis, and study of the Content Scramble System (CSS) key-based authentication system for encrypted DVDs.

He has written, designed and studied device drivers, software and firmware for Windows, UNIX variants (including Linux, Oracle (Sun), Silicon Graphics and Android) and embedded real-time operating systems (RTOSs), and has assembled and led teams of engineers in the study and analysis of various consumer electronics devices. Mr. Berg has been a software developer, project lead, industry analyst, seminar leader, tutor, marketing team member, technical marketer and technical writer. He has participated in over 150 conferences and industry events as a speaker, program chair, conference session chair, conference chair, conference advisory board member and IEEE event coordinator. His programming language experience includes C, C++, Java and assembly.

Mr. Berg has been an Expert Witness, Expert Consultant and Third-Party Auditor in over 80 engagements involving patent, trade secret, copyright, class action, false advertising, price-fixing, medical malpractice, employment and contractual disputes, as well as patent portfolio reviews. These have drawn on over 30 years of experience in the storage industry and over 40 years of experience as a computer engineer, and have involved technology in storage, consumer electronics, IC CAD, software and hardware.

Brian A. Berg: Curriculum Vitae

He has written **39 Expert Reports**, **11 IPR declarations** and a number of other declarations; he has been **deposed 25 times**; and he has provided **trial testimony 9 times**. His engagements have involved source code analysis and comparisons, object code disassembly, hardware design analysis, benchmarking, and forensic computer media duplication, as well as forensic analysis of storage devices and file systems using tools including EnCase.

EMPLOYMENT

- 1985-present: Berg Software Design, Ashland, OR/Saratoga, CA. Consultant/Owner.
- 1979-85: Digital Software Corporation, Santa Clara, CA. Consultant/Founder/Principal.
- 1976-79: Ford Aerospace and Communications Corp., Palo Alto, CA. Senior Software Engineer.
- 1974-76: Computer Sciences Corp., contractor to NASA-Ames Research Center, Mountain View, CA. Software Engineer.
- 1974: Aerojet-General Corp., Tacoma, WA. Software Engineer (division was shutdown).

INDUSTRY CONSULTING CLIENTS

- Accom, Inc., Menlo Park, CA
- Adaptec, Inc., Milpitas, CA
- Alacritech, Inc., San Jose, CA
- Ampex Corp., Redwood City, CA
- Areté Systems Corp., later Arix Corp., San Jose, CA
- Avica Technology Corp., Santa Monica, CA
- Boston Scientific Corp., San Jose, CA
- Carving Technologies, LLC, Lenexa, KS
- Conference Concepts, Inc., San Diego, CA
- Crimson Consulting Group, Inc., Los Altos, CA
- Cygnet Storage Solutions, Inc., later ATG Cygnet, San Jose, CA
- Catel Telecommunications, Inc., Fremont, CA
- The Chatham Group, Los Altos, CA
- DISC, Inc., Milpitas, CA
- DTS, Inc., Calabasas, CA
- e-Appliance Corp., Santa Clara, CA
- E-mu Systems, Inc., Scotts Valley, CA
- Eastman Kodak Co., Rochester, NY
- European Patent Office, The Hague, THE NETHERLANDS
- First Pacific Networks, Sunnyvale, CA
- Formulus Black, Jersey City, NJ
- Fujitsu Computer Products of America, Inc., San Jose, CA/Intellistor, Longmont, CO
- gig.com, Inc., San Francisco, CA
- Hagens Berman Sobol Shapiro, LLP, Seattle, WA
- High Density Devices AS, Kristiansand, NORWAY

Brian A. Berg: Curriculum Vitae

- Hitachi America, Ltd., Brisbane, CA
- Hotfile Corp., Panama City, PANAMA
- Hoyt, Roger, Ph.D., San Jose, CA
- Integrated Automation, Alameda, CA
- Intel Corp., Santa Clara, CA
- Kaiser Aluminum, Pleasanton, CA
- Kofax Image Products, Irvine, CA
- KR Investments, LLC, Atlanta, GA
- Landmark Graphics Corp., Houston, TX
- Latitude Communications, Santa Clara, CA
- LucidPort Technology, Inc., Mountain View, CA
- Lumetra Health Care Solutions, San Francisco, CA
- LinuxWorks, Inc., San Jose, CA
- Miller Freeman, Inc., San Mateo, CA
- Miltope Corp., Hope Hull, AL
- Morrison & Foerster, LLP, Palo Alto, CA
- National Semiconductor Corp., Santa Clara, CA
- Netac Technology Co., Ltd., Shenzhen, CHINA
- NetCell Corp., San Jose, CA
- NewNetDevice.com, Munich, GERMANY
- Nikon Corp., Tokyo, JAPAN
- Ocean Secure, Sunnyvale, CA
- Open-E, GmbH, Puchheim, GERMANY
- Optical Media International, Los Gatos, CA
- Pacstor, Inc., Los Gatos, CA
- Paralan Corp., San Diego, CA
- Parallan Computer, Inc., Mountain View, CA
- Pillar Ventures, LLC, Los Altos, CA
- Plexus Computers, later Plexus Software, Sunnyvale, CA
- Pyramid Technology Corp., San Jose, CA
- Ricoh Corp., San Jose, CA
- SafetyMate Corp., Irvine, CA
- SandForce, Inc., Milpitas, CA
- Sandvine, Inc., Waterloo, Ontario, CANADA
- San Jose Engineering, LLC, San Jose, CA
- SANlight, Inc., San Jose, CA
- Sega of America, Inc., Redwood City, CA
- Sequent Computer Systems, Inc., Beaverton, OR
- Siemens Information and Comm. Networks, Inc., formerly Rolm Corp., Santa Clara, CA
- Silicon Gaming, Inc., Palo Alto, CA
- Silicon Gear, San Jose, CA
- Silicon Graphics, Inc., Mountain View, CA
- Siros Technologies, San Jose, CA
- Solution Technology, Boulder Creek, CA

Brian A. Berg: Curriculum Vitae

- Sony Electronics, Inc., San Jose, CA
- Sony Magnetic Products Inc. of America, Dothan, AL
- Starlight Networks, Mountain View, CA
- Steelcase, Portland, OR
- Studer Editech Corp., Menlo Park, CA
- Tab Products Co., Palo Alto, CA
- Technology, Patents & Licensing, Inc., Doylestown, PA
- TRW Financial Systems, Berkeley, CA
- Verio, Inc., Centennial, CO
- Williams & Connolly, LLP, Washington, DC
- Xerox Corp./Terabank Systems, Inc., Campbell, CA
- Young, Basile, Hanlon & MacFarlene, PC, Troy, MI

EXPERT WITNESS EXPERIENCE

1. September 2022-February 2023: **Orrick Herrington & Sutcliffe, LLP**, Menlo Park, CA. Expert Witness for defendant in Vervain, LLC v. Micron Technology, et al. (Case No. 6:21-cv-00487-ADA, US District Court, Western District of Texas, Waco Division), a patent dispute involving the operation of flash memory-based SSDs, specifically US 8,891,298, US 9,196,385, US 9,997,240 and US 10,950,300 (“Lifetime Mixed Level Non-Volatile Memory System”). Performed study and analysis; wrote invalidity and non-infringement Expert Reports; was deposed.
2. December 2021-October 2022: **Fish & Richardson PC**, Austin, TX. Expert Witness for petitioners Kingston Technology Co., Inc. and Kingston Technology Corp. Wrote a declaration for an *inter partes* review (IPR) petition (IPR2022-00437) regarding US 6,920,527 (“Portable RAM Drive”), whose subject matter is a portable flash device.
3. June 2021-present: **PricewaterhouseCoopers Au**, Sydney, AUSTRALIA. Engaged to provide my independent expert opinion in relation to the *eligibility review* by Innovation and Science Australia of Mandoe Pty. Ltd.’s 2015-2017 R&D Tax Incentive registrations which described research deemed necessary in order to determine if two different Authentication, Authorization and Accounting (AAA) schemes could properly co-exist and operate in support of Mandoe’s online infrastructure and mobile app. Wrote an Expert Report describing my opinion of Mandoe’s tax incentive eligibility.
4. April 2021: **Lando & Anastasi, LLP**, Boston, MA. Expert Witness for plaintiff in Wildlife Acoustics, Inc. v. Frontier Labs Pty., Ltd. (Case No. 1:20-cv-10620, US District Court, District of Massachusetts), a *patent dispute* involving a data recording device with an adjustable power-on schedule, as could be used for collecting audio data in the field to monitor wildlife, specifically US 7,782,195 (“Apparatus for Scheduled Low Power Autonomous Data Recording”). Wrote a declaration regarding claim construction issues.
5. March-July 2021: **Squire Law Group, PA**, Delray Beach, FL. Expert Witness for plaintiff in Scanz Technologies, Inc. v. Jewmon Enterprises, LLC, *et al.* (Case No. 20-cv-22957, US District Court, Southern District of Florida, Miami-Dade Division), a case

Brian A. Berg: Curriculum Vitae

involving the *theft of the User Interface look and feel, and operation*, of software which allowed those engaged in for-profit trading activities involving public capital markets (including “day traders”) to easily and accurately assess trading opportunities. Wrote two Expert Declarations which exhaustively discussed the architecture, operation and user interface of various products on the market, and in particular the products of the parties involved in this case. These declarations led directly to settlement in favor of the plaintiff.

6. December 2020-December 2021: **O’Melveny & Myers, LLP**, Los Angeles, CA. Expert Witness for defendant in Monterey Research, LLC v. Advanced Micro Devices, Inc. (Case No. 1:19-cv-02149, US District Court, District of Delaware), a *patent dispute*, and Future Link Systems, LLC v. Advanced Micro Devices, Inc. (Case No. 1:21-cv-01051-RP, US District Court, Western District of Texas, Austin Division), a *patent dispute*.
7. October 2017-January 2023: **Cantor Colburn, LLP**, Hartford, CT and **Barclay Damon, LLP**, Boston, MA. Expert Witness for patent owner M2M in Amazon.com, Inc. v. M2M Solutions LLC, regarding a family of patents titled “System and Method for Remote Asset Management” which disclose autonomous monitoring and management of mobile consumer devices. Wrote two declarations replying to six *inter partes review (IPR) petitions* (IPR2017-01891, IPR2017-01892, IPR2017-01893, IPR2017-01894, IPR2017-01895 and IPR2017-01896) regarding US 8,504,007, US 8,577,358 and US 8,577,359; wrote three declarations replying to two *IPR petitions* (IPR2019-01204 and IPR2019-01205) regarding US 9,961,477 and US 10,038,989, and was deposed regarding the latter two petitions; and wrote one declaration replying to one *IPR petition* (IPR2022-00260) regarding US 10,791,442.
8. September 2018-June 2019: **Seyfarth Shaw, LLP**, Houston, TX. Expert Witness for plaintiffs in Huawei Technologies Co., Ltd. and Futurewei Technologies, Inc. v. Yiren Ronnie Huang and CNEX Labs, Inc. (Case No. 4:17-cv-00893, US District Court, Eastern District of Texas, Sherman Division), a *trade secrets dispute* involving flash memory, SSDs, NVMe, NVMe-oF, and networking technology, and for defendants in a Counterclaims dispute involving similar technology. Wrote three Expert Reports and two declarations; was deposed; testified at trial.
9. November-December 2018: **Fish & Richardson PC**, Austin, TX. Expert Witness for petitioners Red Hat, Inc., Dell Inc., Dell Technologies Inc., EMC Corporation, Hewlett Packard Enterprise Co., Hitachi Vantara Corporation, and Super Micro Computer. Wrote a declaration for two *inter partes review (IPR) petitions* (IPR2019-00465 and IPR2019-00467) regarding US 6,718,436 (“Method for Managing Logical Volume in Order to Support Dynamic Online Resizing and Software RAID and to Minimize Metadata and Computer Readable Medium Storing the Same”).
10. March-August 2018: **Covington & Burling, LLP**, Redwood Shores, CA. Expert Witness for defendants in Fundamental Innovation Systems International, LLC v. Huawei Investment & Holding Co., Ltd., *et al.* (Case No. 2:16-cv-1424, US District Court, Eastern District of Texas, Marshall Division), a *patent dispute* involving USB fast charging technology in cell phones and portable devices, specifically US 8,232,766, US

Brian A. Berg: Curriculum Vitae

7,834,586, US 8,624,550 (all titled “Multifunctional charger system and method”) and US 7,239,111 (“Universal serial bus adapter for a mobile device”). Performed study and analysis; wrote invalidity and non-infringement Expert Reports; was deposed.

11. November 2015-June 2017: **Alston & Bird, LLP**, Atlanta, GA, and **Crowell & Moring, LLP**, San Francisco, CA. Expert Witness for plaintiffs in Dell Inc. and Dell Products LP v. Hitachi-LG Data Storage, Inc., *et al.* (Case No. 3:13-cv-03550-RS) and Hewlett-Packard Co. v. Toshiba Corp., *et al.* (Case No. 3:13-cv-05370-RS), US District Court, Northern District of California, San Francisco Division, a **price-fixing conspiracy dispute** involving CD-ROM, DVD and Blu-ray Disc (BD) optical disk drives. Wrote an Expert Report about the importance of optical storage standards; was deposed.
12. February 2015-June 2016: **Lerner, David, Littenberg, Krumholz & Mentlik, LLP**, Westfield, NJ. Expert Witness for defendant in Imation Corp. v. Sony Electronics, Inc. (Case No. 0:14-CV-628-MJD-SER), US District Court, District of Minnesota, a **patent dispute** involving flash memory card connectors and standards, specifically US 6,908,038 (“Multi-Connector Memory Card with Retractable Sheath to Protect the Connectors”) and US 6,890,188 (“Memory Card Compatible with Device Connector and Host Connector Standards”). As petitioner’s declarant, wrote two declarations in support of two **IPR petitions** (which led to institution of IPR2015-01556 for the ’038 patent and IPR2015-01557 for the ’188 patent), and wrote two reply declarations. Citing my opinions in both reviews, the PTAB found that all contested claims were unpatentable.
13. July-November 2015: **Greenberg Traurig, LLP**, Sacramento, CA. Expert Witness for plaintiff in MAXIMUS, Inc. v. Nimbus Data Systems, Inc., *et al.* (Case No. 2:14-CV-841-JAM-KJN), US District Court, Eastern District of California, a **contractual dispute** involving the operation of a flash memory-based storage device using various versions of the Oracle (Sun) Solaris operating system. Wrote two Expert Reports; was deposed.
14. September-December 2015: **Stadheim & Grear, Ltd.**, Chicago, IL. Expert Witness for plaintiff in Kinglite Holdings, Inc. v. Micro-Star International Co., Ltd., *et al.* (Case No. CV 14-03009-JVS (PJWx) consolidated with CV 14-04989-JVS (PJWx)), US District Court, Central District of California, Southern Division, a **patent dispute** involving BIOS firmware technology, specifically US 6,222,562 (“Fast Processed Screen Image”), US 6,791,572 (“Generating Media Output During BIOS Boot-Up”) and US 8,095,783 (“Media Boot Loader”). Wrote an Expert Report; was deposed.
15. August 2015-January 2016: **Bunsow, De Mory, Smith & Allison, LLP**, San Francisco, CA. Expert Witness for plaintiff in Longitude Licensing, Ltd., *at al.*, v. Apple, Inc. (Case No. 3:14-CV-4275-EDL), US District Court, Northern District of California, San Francisco Division, a **patent dispute** involving flash memory management techniques, specifically US 6,831,865 (“Maintaining Erase Counts in Non-Volatile Storage Systems”), US 7,120,729 (“Automated Wear Leveling in Non-Volatile Storage Systems”), US 7,012,835 (“Flash Memory Data Correction and Scrub Techniques”), US 7,224,607 (“Flash Memory Data Correction and Scrub Techniques”) and US 8,050,095 (“Flash Memory Data Correction and Scrub Techniques”). Performed study and analysis.

Brian A. Berg: Curriculum Vitae

16. December 2014-January 2015: **Hemingway & Hansen, LLP**, Dallas, TX. Expert Witness for defendant in e.Digital Corp. v. Mushkin, Inc. (Case No. 3:13-CV-2914-H) and e.Digital Corp. v. Other World Computing, Inc. (Case No. 3:13-CV-2915-H), both in US District Court, Southern District of California, a pair of **patent disputes** involving a flash memory file system, specifically US 5,839,108 (“Flash Memory File System in a Handheld Record and Playback Device”). Performed study and analysis.
17. September-October 2014: **Duane Morris, LLP**, Palo Alto, CA. Expert Witness for plaintiff in NetApp, Inc. v. Nimble Storage, Inc., *et al.*, (Case No. 5:13-CV-05058-LHK (HRL), US District Court, Northern District of California, and Case No. 1:14-CV-265454, Santa Clara County Superior Court), a **trade secrets dispute** involving data storage including Network-Attached Storage (NAS). Performed study and analysis.
18. June-December 2014: **McDermott, Will & Emery, LLP**, Los Angeles, CA. Expert Witness for defendant in e.Digital Corp. v. Seagate Technology, LLC, (Case No. 3:13-CV-2946-H, US District Court, Southern District of California), a **patent dispute** involving a flash memory file system, specifically US 5,839,108 (“Flash Memory File System in a Handheld Record and Playback Device”). Performed study and analysis.
19. February-April 2014: **TechKnowledge Law Group, LLP**, San Francisco, CA. Expert Witness for defendant in Profectus Technology, LLC v. Acer, Inc., *et al.* (Case No. 6:11-CV-00677-MHS, US District Court, Eastern District of Texas, Tyler Division), a **patent dispute** involving ambient light sensors in Acer tablets, specifically US 6,975,308 (“Digital Picture Display Frame”). Performed study and analysis.
20. January 2014-January 2015: **Vinson & Elkins, LLP**, Austin, TX, and **Keker & Van Nest, LLP**, San Francisco, CA. Expert Witness for defendant in Round Rock Research, LLC v. SanDisk Corp. (Case No. 12-569 (SLR), US District Court, District of Delaware), a **patent dispute** involving embedded flash (eMMC) and SD/microSD flash memory cards, specifically US 5,615,159 (“Memory System with Non-Volatile Data Storage Unit and Method of Initializing Same”), US 6,728,798 (“Synchronous Flash Memory with Status Burst Output”) and US 6,948,041 (“Permanent Memory Block Protection in a Flash Memory Device”). Performed study and analysis regarding non-infringement and invalidity of the asserted claims; wrote Expert Reports; was deposed; testified at trial. The jury agreed with my opinions that all asserted claims were invalid, and that all claims for which I had a non-infringement opinion were not infringed.
21. November 2013-April 2014: **Trial Law Offices of Bradley I. Kramer**, Beverly Hills, CA. Expert Witness for plaintiff in Randall E. Shuler, *et al.* v. Joseph A. Ashwood, *et al.* (Case No. 1-12-CV-216942, California Superior Court, Santa Clara County), a **technology ownership dispute** involving flash memory storage architecture and patent inventorship. Performed study and analysis; wrote an Expert Report; was deposed.
22. October 2013-June 2015: **Latham & Watkins, LLP**, Menlo Park, CA. Expert Witness for defendant in Delphix Corp. v. Actifio, Inc. (Case No. 5:13-CV-4613-BLF, US District Court, Northern District of California, San Francisco Division), a **patent dispute** involving databases, virtual and cloud storage, data compression, data deduplication,

Brian A. Berg: Curriculum Vitae

object hashes, data backup and metadata, specifically US 8,150,808 (“Virtual Database System”), US 8,161,077 (“Datacenter Workflow Automation Scenarios Using Virtual Databases”), US 8,548,944 (“De-Duplication Based Backup of File Systems”), US 8,566,361 (“Datacenter Workflow Automation Scenarios Using Virtual Databases”) and US 8,468,174 (“Interfacing with a Virtual Database System”); for plaintiff in *Actifio, Inc. v. Delphix Corp.* (Case No. 5:14-CV-1047-BLF, US District Court, Northern District of California, San Francisco Division), a **patent dispute** involving storage virtualization technology, specifically US 6,959,369 (“Method, System, and Program for Data Backup”) and US 6,732,244 (“Instant Virtual Copy Technique with Expedited Creation of Backup Dataset Inventory from Source Dataset Inventory”); and for plaintiff in *Actifio, Inc. v. Delphix Corp.* (Case Nos. 1:14-CV-13247-DJC and 1:15-CV-11429-DJC; US District Court, District of Massachusetts, Boston Division), a pair of **patent disputes** involving storage technology similar to that described above, specifically US 8,299,944 (“System and method for creating deduplicated copies of data storing non-lossy encodings of data directly in a content addressable store”), US 8,788,769 (“System and method for performing backup or restore operations utilizing difference information and timeline state information”) and US 8,904,126 (“System and method for performing a plurality of prescribed data management functions in a manner that reduces redundant access operations to primary storage”). Performed study and analysis of the accused products, including under the Oracle (Sun) Solaris operating system.

23. September 2013-October 2014: **Proskauer Rose, LLP**, Boston, MA. Expert Witness for plaintiff in *ADREA, LLC v. Barnes & Noble, Inc., et al.* (Case No. 13-CV-4137-JSR, US District Court, Southern District of New York), a **patent dispute** involving Nook electronic book readers, including their internal circuitry and components and firmware, specifically US 7,298,851 (“Electronic Book Security and Copyright Protection System”), US 7,299,501 (“Electronic Book Selection and Delivery System Having Encryption and Security Features”) and US 7,620,703 (“Topical Service Provides Context Information for a Home Network”). Performed teardowns and extensive reverse engineering; wrote an infringement Expert Report; was deposed; testified at trial. The jury found infringement of 10 of the 11 asserted claims.
24. April 2013-November 2015, March 2011-August 2012: **Freitas, Angell & Weinberg, LLP**, Redwood Shores, CA, and **Freitas, Tseng & Kaufman, LLP**, Redwood Shores, CA. Expert Witness for complainant in *MyKey Technology, Inc.*, in ITC Investigation 337-TA-799, for which Data Protection Solutions by Arco, CRU Acquisitions Group LLC, CRU-DataPort LLC, Digital Intelligence, Inc., Diskology, Inc., Guidance Software, Inc., Guidance Tableau LLC, Ji2, Inc., MultiMedia Effects, Inc., Voom Technologies, Inc. and YEC Co. Ltd. were the respondents, and follow-on district court cases. The cases were a **patent dispute** involving forensic devices that use write-blocking, data duplication, erasure, hash functions and compression, specifically US 6,813,682 (“Write Protection for Computer Long-Term Memory Devices”), US 7,159,086 (“Systems and Methods for Creating Exact Copies of Computer Long-Term Storage Devices”) and US 7,228,379 (“Systems and Methods for Removing Data Stored on Long-Term Memory Devices”). Analyzed product operation; wrote Expert Reports regarding claim construction and infringement; wrote declarations; was deposed four times; testified at ITC trial.

Brian A. Berg: Curriculum Vitae

25. March 2013-April 2014: **Fish & Richardson, PC**, Dallas, TX, and **McDermott, Will & Emery, LLP**, Boston, MA. Expert Witness for defendant in NXP, BV v. Research in Motion, Ltd., *et al.* (Case No. 6:12-CV-498-YK-TBS, US District Court, Middle District of Florida, Orlando Division), a **patent dispute** involving buses, SoC (System-on-Chip), flash memory controllers for embedded flash (eMMC) and microSD flash memory cards, and Wi-Fi controllers, specifically US 6,434,654 (“System Bus With a Variable Width Selectivity Configurable at Initialization”). Performed extensive hardware and software analysis and study; wrote invalidity and non-infringement Expert Reports; was deposed; testified at trial. The jury found the ’654 patent to be both invalid and not infringed.
26. February 2013-October 2015: **Greenan, Pepper, Sallander & Lally, LLP**, San Ramon, CA. Expert Witness for defendant in Kwan Software Engineering, Inc., dba VeriPic, Inc., *et al.* v. Foray Technologies, LLC, *et al.* (Case No. C 12-03762, US District Court, Northern District of California; and Case No. 1-09-CV-149780, California Superior Court, Santa Clara County), a **false advertising dispute** involving software used to maintain photographic and video evidentiary data. Performed study and analysis; wrote an Expert Report.
27. January 2013-May 2014: **Gonsalves & Kozachenko**, Fremont, CA, and **Orrick, Herrington & Sutcliffe, LLP**, San Diego, CA. Joint Neutral Expert Witness for plaintiff and defendants in Metabyte, Inc. v. NVIDIA Corp., *et al.* (Case No. 12-CV-00044-LB, US District Court, Northern District of California, San Jose Division), a **copyright and trade secrets misappropriation dispute** involving 3D stereoscopic software. Performed study and analysis; wrote a report.
28. September 2012-January 2013: **Kenyon and Kenyon, LLP**, Washington, DC, **Morrison & Foerster, LLP**, Washington, DC, **K&L Gates, LLP**, San Francisco, CA, and **Hogan Lovells US, LLP**, Washington, DC. Expert Witness for respondents Hewlett-Packard Co., Fujitsu Limited, Acer, Inc. and Dell, Inc., in ITC Investigation 337-TA-841, for which Technology Properties Limited, LLC, is the Complainant. The action is a **patent dispute** involving flash memory cards, card readers, card sockets and card controllers for numerous formats including SD/microSD, specifically US 7,295,443 (“Smartconnect Universal Flash Media Card Adapters”), US 7,522,424 (“Smartconnect Universal Flash Media Card Adapters”) and US 7,719,847 (“Smartconnect Flash Card Adapter”). Performed study and analysis; wrote a non-infringement Expert Report; testified at trial. The ALJ determined that the three patents were not infringed by the respondents.
29. August 2012-June 2013: **Farella Braun + Martel, LLP**, San Francisco, CA, and **Freitas, Tseng & Kaufman, LLP**, Redwood Shores, CA. Expert Witness for defendant Dell, Inc., in Round Rock Research, LLC v. Dell, Inc., *et al.* (Case No. 11-CV-0976-RGA, US District Court, District of Delaware) and Round Rock Research, LLC v. Acer, Inc., *et al.* (Case No. 11-CV-0977-RGA, US District Court, District of Delaware), a **patent dispute** involving USB and BIOS, specifically US 5,991,843 (“Method and System for Concurrent Computer Transaction Processing”) and US 5,938,764 (“Apparatus for Improved Storage of Computer System Configuration Information”). Performed prior art searches; assisted with claim construction and non-infringement issues.

Brian A. Berg: Curriculum Vitae

30. March-April 2012: **Morgan, Lewis & Bockius, LLP**, Philadelphia, PA. Expert Witness for defendant in David Baba and Ray Ritz v. Hewlett-Packard Co. (Case No. 5:09-CV-05946-RS, US District Court, Northern District of California, San Jose Division), a **class action dispute** involving the operation of the cursor on the screen of a class of HP laptop computers. Disassembled and studied a pair of laptop computers.
31. February 2012: **Klinedinst, PC**, San Diego, CA. Expert Witness for defendant PNY Technologies, Inc., in Remzija Husic v. Laser Eye Care of California, LLC, *et al.* (Case No. 37-2010-00094848-CU-MM-CTL, California Superior Court, San Diego County), a **medical malpractice dispute** involving flash memory data storage in a laser eye surgery procedure. Performed study and analysis; wrote a declaration.
32. January-May 2012: **Farney Daniels, LLP**, Austin, TX. Expert Witness for defendant HP Enterprise Services, LLC, in Titanide Ventures, LLC v. AT&T, Inc., *et al.* (Case No. 4:11-CV-00265-MHS, US District Court, Eastern District of Texas, Sherman Division), a **patent dispute** involving Cloud Storage technology, specifically US 6,714,968 (“Method and System for Seamless Access to a Remote Storage Server Utilizing Multiple Access Interfaces Executing on the Remote Server”) and US 6,735,623 (“Method and System for Accessing a Remote Storage Area”). Performed prior art searches and research.
33. December 2011-January 2012: **Wilmer Cutler Pickering Hale and Dorr, LLP**, Los Angeles, CA. Expert Witness for defendant in Samsung Electronics Co., Ltd. v. Apple Korea, Ltd. (Case No. 2011 Kahap 39552, Seoul Central District Court, South Korea), a **patent dispute** involving USB connectivity to the iPhone, specifically South Korean Patent No. 10-0273973 (“Method of Providing a Digital Mobile Phone with Data Communication Services”). Performed study and analysis; wrote an Expert Declaration regarding invalidity and non-infringement.
34. June-July 2011: **Morrison & Foerster, LLP**, San Francisco, CA. Expert Witness for plaintiff in Yahoo!, Inc. v. Augme Technologies, Inc. and World Talk Radio, LLC (Case No. 09-CV-5386-JCS, US District Court, Northern District of California, San Francisco Division), a **patent dispute** involving storage and playback of multimedia website content, specifically US 7,512,622 (“Method and Apparatus for Organizing and Playing Data”) and US 7,640,320 (“Method and System for Managing Digital Content, Including Streaming Media”). Analyzed source code in preparation for a Markman Hearing.
35. March-May 2011: **Morrison & Foerster, LLP**, San Francisco, CA. Expert Witness for plaintiff in EchoStar Technologies, Corp. v. TiVo, Inc. and Humax USA, Inc. (Case No. 5:05-CV-00081-DF, US District Court, Eastern District of Texas, Texarkana Division), a **patent dispute** involving the data stored to and retrieved from a DVR, specifically US 6,208,804 (“Multimedia Direct Access Storage Device and Formatting Method”). Analyzed TiVo DVR source code.
36. January-June 2011: **Dechert, LLP** and **Farney Daniels, LLP**, Austin, TX. Expert Witness for defendant 3PAR, Inc. in Crossroads Systems, Inc. v. 3PAR, Inc., *et al.* (Case No. 1:10-CV-652-SS, US District Court, Western District of Texas, Austin Division), a **patent dispute** involving storage routers, specifically US 5,941,972, US 6,425,035 and

Brian A. Berg: Curriculum Vitae

US 7,051,147 (“Storage Router and Method for Providing Virtual Local Storage”). Wrote two declarations; assisted in preparation for a Markman Hearing.

37. November 2010-November 2011: **Morrison & Foerster, LLP**, San Francisco, CA. Expert Witness for plaintiff in ADREA, LLC v. Amazon.com, Inc. (Case No. 10-600-ER, US District Court, District of Delaware), a **patent dispute** involving security and encryption within the Kindle electronic book purchase, content delivery and storage system, specifically US 7,298,851 (“Electronic Book Security and Copyright Protection System”) and US 5,986,690 (“Electronic Book Selection and Delivery System”). Performed study and analysis, including source code; wrote a declaration.
38. November 2010-March 2011: **Morgan, Lewis & Bockius, LLP**, Washington, DC, **Orrick, Herrington & Sutcliffe, LLP**, Menlo Park, CA and **Vinson & Elkins, LLP**, Austin, TX. Expert Witness for defendants Hewlett-Packard Co., Dell, Inc., Acer, Inc., Acer America Corp., Gateway, Inc., SoftThinks SAS and SoftThinks USA, Inc., in Xpoint Technologies, Inc. v. Intel Corp., *et al.* (Case No. 09-26-SLR, US District Court, District of Delaware), a **patent dispute** involving data backup and restore technology, specifically US 7,024,581, US 7,430,686 and US 7,689,861 (“Data Processing Recovery System and Method Spanning Multiple Operating System”). Performed study and analysis; wrote two Expert Reports.
39. July-October 2010: **Morgan, Lewis & Bockius, LLP**, Philadelphia, PA. Expert Witness for defendant in Katherine E. Decker v. Hewlett-Packard Co. (Case No. 5:09-CV-00295-JW, US District Court, Northern District of California, San Jose Division), a **class action dispute** involving the wireless networking capability of a class of HP laptop computers. Disassembled and studied a laptop computer.
40. July 2010-December 2011: **Weiss & Moy, PC**, Washington, DC. Expert Witness for plaintiff in Planet Bingo, LLC, *et al.* v. Randy von Drasek, *et al.* (Case No. 2:08-CV-04822-GW-FMO, US District Court, Central District of California), a **trade secrets dispute** involving computer game algorithms and efficiency techniques. Performed study and analysis; wrote three declarations.
41. April 2010-June 2011: **Wilmer Cutler Pickering Hale and Dorr, LLP**, Palo Alto, CA. Expert Witness for plaintiff in Apple, Inc. v. Nokia Corp. (Case No. 09-CV-791-GMS, US District Court, District of Delaware), a **patent dispute** involving USB, specifically US 5,634,074 (“Serial I/O Device Identifies Itself to a Computer Through a Serial Interface During Power On Reset Then It Is Being Configured by the Computer”). Analyzed Nokia cell phone devices; assisted in preparation for a Markman Hearing.
42. February-May 2010: **K&L Gates, LLP**, Palo Alto, CA. Expert Witness for plaintiff in Phoenix Technologies, Ltd. v. DeviceVM, Inc. and Benedict Chong (Case No. 4:09-CV-04697-CW (EDL), US District Court, Northern District of California, Oakland Division), a **trade secrets dispute** involving instant-on technology such as Splashtop, and a **patent dispute** involving related technology, specifically US 6,519,659 (“Method and System for Transferring an Application Program from System Firmware to a Storage Device”) and US 7,082,526 (“Mechanism for Intuitively Invoking One or More Auxiliary

Brian A. Berg: Curriculum Vitae

Programs During a Computer Booting Process”). Performed study and analysis; wrote a declaration.

43. July-October 2009: **Alston & Bird, LLP**, Palo Alto, CA. Expert Witness for plaintiff in Ours Technology, Inc. (“OTi”) v. Data Drive Thru, Inc. (Case No. 3:09-CV-00585-MHP, US District Court, Northern District of California), a **Declaratory Judgment case**, and the related **patent dispute** Data Drive Thru, Inc. v. Radio Shack, *et al.* (Case No. 2:08-CV-00485-TJW, US District Court, Eastern District of Texas, Marshall Division). At issue in both cases was US 7,108,191 (“Intelligent Computer Cabling”), whose claimed invention was attempted to be read onto USB data cables. Performed study and analysis; wrote an affidavit in support of OTi’s *Inter Partes* Reexamination of the ‘191.
44. June 2009-June 2010: **Young, Basile, Hanlon & MacFarlene, PC**, Troy, MI. Expert Witness for defendant Acronis, Inc., in Xpoint Technologies, Inc. v. Intel Corp., *et al.* (Case No. 09-26-SLR, US District Court, District of Delaware), a **patent dispute** involving data backup and restore technology. Performed product testing, and infringement and invalidity analysis.
45. February-April 2009: **Goldstein, Faucett & Prebeg, LLP**, Houston, TX. Expert Witness for plaintiff in Jack Brown v. Baylor Health Care System, *et al.* (Case No. 4:08-CV-00372, US District Court, Southern District of Texas), a **patent dispute** involving a barcode system, specifically US 4,857,713 (“Hospital Error Avoidance System”). Performed study and analysis; wrote a declaration.
46. January 2009-March 2011: **Gibson Lowry Burris, LLP**, Las Vegas, NV. Expert Witness for plaintiff in MedCorp, Inc. v. Pinpoint Technologies, Inc. and Zoll Data Systems, Inc. (Case No. 1:08-CV-00867, US District Court, District of Colorado), a **breach of contract dispute** of a license agreement for medical dispatch and billing software that included a Microsoft SQL database. Performed study and analysis; wrote two Expert Reports; was deposited on each report.
47. April 2008-January 2011: **Lerner, David, Littenberg, Krumholz & Mentlik, LLP**, Westfield, NJ. Expert Witness for plaintiff in T.M. Patents, LP, *et al.* v. Sun Microsystems, Inc. (Case No. 7:06-CV-13558, US District Court, Southern District of New York), a **patent dispute** involving RAID, specifically US 4,899,342 (“Method and Apparatus for Operating Multi-Unit Array of Memories”), US 5,202,979 (“Storage System Using Multiple Independently Mechanically-Driven Storage Units”) and US 5,301,310 (“Parallel Disk Storage Array System with Independent Drive Operation Mode”). Performed study and analysis of the operation of the accused devices under the Sun Solaris operating system; assisted in preparation for a Markman Hearing.
48. July 2007-April 2008: **O’Brien & Kelleher, LLP**, Walnut Creek, CA. Expert Witness for plaintiff in Richard E. de la Rosa, *et al.* v. City of San Jose, *et al.* (Case No. 1-03-CV-817097, California Superior Court, Santa Clara County), a **defamation dispute** involving evidence on a hard disk drive. Performed study and analysis; wrote two declarations; was deposited.

Brian A. Berg: Curriculum Vitae

49. April 2007-February 2008: **Morgan, Lewis & Bockius, LLP**, New York, NY. Expert Witness for plaintiff in Netac Technology Co., Ltd. v. PNY Technologies, Inc. (Case No. 5:06-CV-0029 TJW, US District Court, Eastern District of Texas, Texarkana Division), a **patent dispute** involving firmware and software for USB Flash Drives, specifically US 6,829,672 (“Electronic Flash Memory External Storage Method and Device”). Performed operational study and analysis of the operation of about 40 models of USB Flash Drives; assisted in preparation for a Markman Hearing.
50. February 2007: **Timken Johnson Hwang, LLP**, Walnut Creek, CA. Expert Witness for plaintiff in Wordtech Systems, Inc. v. Integrated Network Solutions, Inc., *et al.* (Case No. CIV-S-04-1971, US District Court, Eastern District of California), a **patent dispute** involving CD duplication systems, specifically US 6,141,298, US 6,532,198 and US 6,822,932 (“Programmable Self-Operating Compact Disk Duplication System”). Performed study and analysis; wrote an Expert Report.
51. May 2006-April 2007: **White & Case, LLP**, Palo Alto, CA. Expert Witness for plaintiff in DVD Copy Control Association, Inc. v. Kaleidescape, Inc. (Case No. 1-04-CV-031829, California Superior Court, Santa Clara County), a **breach of contract dispute** involving the DVD Content Scramble System (CSS) and its associated license. Performed study and analysis of product operation, including source code; wrote a declaration; was deposed; testified at trial.
52. September 2006-August 2007: **Liner, Yankelevitz, Sunshine & Regenstreif, LLP**, San Francisco, CA, and **Law Offices of Roger C. Hsu**, Pasadena, CA. Expert Witness for plaintiff in AdTech RFID, Inc. v. Richard Zai, *et al.* (Case No. 1-06-CV-057464, California Superior Court, Santa Clara County), a **trade secrets dispute** involving Radio Frequency Identification (RFID) source code. Performed study and analysis; wrote an Expert Report.
53. February-April 2006: **White & Case, LLP**, Palo Alto, CA. Expert Witness for defendant in Sputtered Films, Inc. v. Sergey Mishin, *et al.* (Case No. 1132336, California Superior Court, Santa Barbara County), a **trade secrets dispute** involving sputtering equipment for depositing a thin film onto a silicon wafer or substrate. Performed investigative work.
54. December 2004-January 2005: **Borton, Petrini & Conron, LLP**, San Francisco, CA. Expert Witness for defendants in Ord v. The Ryness Company, Inc., *et al.* (Case No. C04-00330, California Superior Court, Contra Costa County), an **employment dispute**. Duplicated, inspected and searched the contents of a hard disk drive, particularly the emails, using various tools including EnCase; wrote two affidavits.
55. October 2004-July 2005: **DLA Piper Gray Cary US, LLP**, East Palo Alto, CA. Testifying Expert Witness for respondents Zoran Corp. and Oak Technology, Inc., in ITC Investigation 337-TA-523, for which MediaTek, Inc., was the complainant. The action was a **patent dispute** involving CD-ROM controller chips, specifically US 5,970,031 (“Compact Disc Player System with Vibration-Immune Interrupted Playback Capability”) and US 6,170,043 (“Method for Controlling an Optic Disk”). Performed

Brian A. Berg: Curriculum Vitae

study and analysis; wrote Expert Reports related to claim construction, non-infringement, invalidity and lack of domestic industry-technical prong; was deposed; testified at trial.

56. August 2004-April 2005: **McDermott, Will & Emery, LLP**, Washington, DC. Testifying Expert Witness for plaintiff in *XIOtech Corp. v. Compellent Technologies, Inc., et al.* (Case No. 04-5066, Fourth Judicial District Court, Hennepin County, Minnesota), a **trade secrets dispute** involving Storage Area Networks (SAN) and other storage technologies. Performed study and analysis; wrote an Expert Report; was deposed.
57. April-July 2004: **GCA Law Partners, LLP**, Mountain View, CA. Expert Witness for defendant in *Applied Materials, Inc. v. Certified Applied Technology, et al.* (Case No. 104 CV 017636, California Superior Court, Santa Clara County), a **trade secrets dispute**. Performed study and analysis; wrote declarations.
58. March-September 2003: **Oblon, Spivak, McClelland, Maier & Neustadt, PC**, Alexandria, VA. Expert Witness for claimants France Télécom S.A. and Télédiffusion de France S.A., in an International Chamber of Commerce International Court of Arbitration proceeding (ICC Case No. 11899/DB/EC), a **patent dispute** in which RSA Security, Inc., was the respondent. Wrote a statement describing my investigative work monitoring network traffic for Novell software, including NetWare. Expert Witness for plaintiffs in *France Télécom S.A., Télédiffusion de France S.A., and U.S. Philips Corp. v. Novell, Inc.* (Case No. 02-437-GMS, US District Court, District of Delaware), a **patent dispute**. Performed investigative work monitoring network traffic for Novell software, including NetWare; wrote an Expert Report; was introduced at an arbitration hearing in Paris, France.
59. January-April 2003: **Gordon & Rees, LLP**, San Francisco, CA. Expert Witness for defendant in *Solid Data Systems, Inc. v. Breakthrough Systems, Inc.* (Case No. CV 803493, California Superior Court, Santa Clara County), a **breach of contract dispute** involving the software and embedded firmware of a Fibre Channel RAM Disk Drive. Performed investigative work.
60. January-March 2003: **Montgomery, McCracken, Walker & Rhoads, LLP**, Philadelphia, PA. Expert Witness for defendants in *RDS Group, Ltd., et al. v. Kathryn Davison and Edwin Davison* (Case No. 02-8168, US District Court, Eastern District of Pennsylvania), a **copyright infringement dispute** involving 3-D steel structure CAD software. Performed source code and GUI analysis.
61. July 2002-November 2003: **Oppenheimer, Wolff & Donnelly, LLP**, and **Dechert, LLP**, Palo Alto, CA. Expert Witness for plaintiff in *Synopsys, Inc. v. Djavad Amiri* (Case No. CV 812622, California Superior Court, Santa Clara County), a **trade secrets dispute**. Investigated chip design CAD source code; wrote a declaration.
62. May 2002-February 2003: **Brooks & Kushman, PC**, Southfield, MI. Expert Witness for plaintiff in *Storage Technology Corporation v. Cisco Systems, Inc.* (Case No. 00-2253-

Brian A. Berg: Curriculum Vitae

MJD/JGL, US District Court, District of Minnesota), a **trade secrets dispute**. Investigated iSCSI and other storage technology; wrote an Expert Report; was deposed.

63. January 2001: **Kolisch Hartwell, PC**, Portland, OR. Expert Witness for defendant in Gioello Enterprises, Ltd., v. Mattel, Inc. (Case No. 99-375-GMS, US District Court, District of Delaware), a **patent dispute** involving apparel design, specifically US 4,546,434 (“Method for designing apparel”). Investigated two Barbie Fashion Designer CD-ROM software products; wrote a non-infringement report.
64. September 2000-June 2001: **Fulbright & Jaworski, LLP**, Austin, TX. Expert Witness for defendants in Crossroads Systems, Inc., v. Chaparral Network Storage, Inc. (Case No. A-00CA-217-SS, US District Court, Western District of Texas, Austin Division) and Crossroads Systems, Inc., v. Pathlight Technology, Inc. (Case No. A-00CA-248-SS, US District Court, Western District of Texas, Austin Division), two **patent disputes**. Wrote an Expert Report re: the invalidity of US 5,941,972 (“Storage router and method for providing virtual local storage,” a patent involving a SCSI-Fibre Channel bridge device), and was deposed.
65. March-May 2000: **Nolan, Armstrong & Barton, LLP**, Palo Alto, CA. Expert Witness for defendant in People v. Sadrudin Laiwala (Criminal Case No. C97-67100, California Superior Court, Santa Clara County), a **trade secrets dispute** involving the DVD Content Scramble System (CSS). Performed investigative work; testified at trial.
66. May 1999-December 2000: **Sideman & Bancroft, LLP**, San Francisco, CA. Expert Witness for plaintiff in Avant! Corp. v. Mohammadreza Vahabi, *et al.* (Case No. CV 779880, California Superior Court, Santa Clara County), a **trade secrets dispute**. Wrote a declaration re: my disk drive and tape media investigation, including email files.
67. November 1998-February 1999: **Howrey & Simon**, Menlo Park, CA. Expert Witness for complainant Oak Technology, Inc. in ITC Investigation 337-TA-409, for which United Microelectronics Corporation (UMC) was the respondent. The action was a **patent dispute** involving US 5,581,715 (“IDE/ATA CD drive controller having a digital signal processor interface, dynamic random access memory, data error detection and correction, and a host interface”), a patent involving a CD-ROM controller chip with an IDE/ATA/ATAPI interface. Wrote an Expert Report related to practice of the ‘715 patent in a CD-ROM controller chip; was deposed.
68. January-March 1998: **Howrey & Simon**, Menlo Park, CA. Expert Witness for complainant Oak Technology, Inc. in ITC Investigation No. 337-TA-401, for which Winbond Electronics Corporation was the respondent. The action was a **patent dispute** involving US 5,535,327 (“Method and apparatus for communicating formatted data from a mass storage device to a host computer”) and US 5,581,715 (“IDE/ATA CD drive controller having a digital signal processor interface, dynamic random access memory, data error detection and correction, and a host interface”), patents involving a CD-ROM controller chip with an IDE/ATA/ATAPI interface. Wrote an Expert Report re: infringement of the ‘715 patent; was deposed.

Brian A. Berg: Curriculum Vitae

EXPERT CONSULTING EXPERIENCE

1. August-September 2022: **Covington & Burling, LLP**, Palo Alto, CA. Performed work on a patent matter.
2. May 2022: **Baker Botts, LLP**, Houston, TX. Performed work on a patent matter.
3. July 2020-June 2021: **Gibson Dunn & Crutcher, LLP**, New York City, NY. Performed patent analysis for defendant in CommVault Systems, Inc. v. Rubrik, Inc. (Case No. 1:20-cv-00524-MN, US District Court, District of Delaware), a **patent dispute** involving data storage and backup, deduplication, and protection against ransomware.
4. April-June 2013: **Vinson & Elkins, LLP**, Austin, TX, and **Keker & Van Nest, LLP**, San Francisco, CA. **Third Party Auditor** to verify compliance with a portion of the terms of a Software License Agreement that was part of the settlement agreement at the conclusion of Ariba, Inc. v. Rearden Commerce, Inc., *et al.* The auditing work entailed source code and GUI analysis, and reporting the results thereof.
5. July-November 2012: **Knobbe Martens Olson & Bear, LLP**, San Diego, CA. Analyzed security aspects of some self-encrypted disk drives.
6. June-November 2011: **Fenwick & West, LLP**, San Francisco, CA. Expert Consultant for plaintiff in Enova Technology Corp. v. Initio Corp., *et al.* (Case No. 10-CV-00004-LPS, US District Court, District of Delaware), a **patent dispute** involving encryption of disk drive data, specifically US 7,136,995 (“Cryptographic Device”), US 7,386,734 (“Real Time Data Encryption/Decryption System and Method for IDE/ATA Data Transfer”) and US 7,900,057 (“Cryptographic Serial ATA Apparatus and Method”). Analyzed product operation and performed various tasks.
7. August-September 2010: **Sidley Austin, LLP**, Palo Alto, CA. Expert Consultant for defendants in Lenovo (Singapore) Pte. Ltd., v. Shuttle, Inc. and Shuttle Computer Group, Inc. (Case No. 5:08-CV-03454-JF, US District Court for the Northern District of California, San Jose Division), a **patent dispute** involving power management, specifically US 5,513,359 (“Desktop computer having a single-switch suspend/resume function”). Found significant prior art.
8. June-July 2010: **Ropes & Gray, LLP**, New York, NY. Expert Consultant for defendant Iomega Corp. in Synchrome Technology, Inc. v. Pioneer Electronics, Inc., *et al.* (Case No. 1:09-CV-00443-SLR, US District Court for the District of Delaware), a **patent dispute** involving a storage device communications involving the IDE/ATA interface, specifically US 5,802,398 and US 6,304,925 (“Method and Apparatus for Allowing Communication Between a Host Computer and At Least Two Storage Devices Over a Single Interface”).
9. December 2009: **Law Offices of Mervyn S. Lazarus**, Newport Beach, CA. Assisted with analysis of jailhouse videos and jail facility data recording infrastructure.

Brian A. Berg: Curriculum Vitae

10. March-April 2009: **Orrick, Herrington & Sutcliffe, LLP**, Menlo Park, CA. Expert Consultant performing source code analysis for an ***undisclosed patent dispute***.
11. May 2008: **Orrick, Herrington & Sutcliffe, LLP**, Menlo Park, CA. Expert Consultant performing software product analysis for an ***undisclosed patent dispute***.
12. December 2007: **Howard Rice Nemerovski Canady Falk & Rabkin, PC**, San Francisco, CA, and **Haas & Najarian, LLP**, San Francisco, CA. Independent Expert Consultant for both parties in *Boyert v. Sakti, et al.* (Case No. CGC-07-460255, California Superior Court, San Francisco County). ***Created forensic disk drive images*** for both parties using EnCase, including the ability to explore the data in a read-only fashion.
13. August 2007-December 2020: **Jones Day**, Chicago, IL. Expert Consultant performing research, investigation and testing for defendant in *Papst Licensing v. Nikon Corp.*, a ***patent dispute*** regarding the operation of various Nikon digital cameras.
14. November 2006: **Quinn Emanuel Urquhart Oliver & Hedges, LLP**, Redwood Shores, CA. Expert Consultant for defendant Sony Corp. of America in *Synchrome Technology, Inc. v. Hewlett-Packard Co., et al.* (Case No. 4:06-CV-00155, US District Court, Eastern District of Texas, Sherman Division), a ***patent dispute*** involving the IDE/ATA interface.
15. November 2006: **Greenan, Peffer, Sallander & Lally, LLP**, San Ramon, CA. Expert Consultant for defendant in *Keith Benedict v. MediaTrac, LLC*, an ***employment dispute*** involving the architecture and implementation of a commercial website.
16. June 2006-June 2007: **Klarquist Sparkman, LLP**, Portland, OR. Expert Consultant for defendant in *VERITAS Operating Corp. v. Microsoft Corp.* (Case No. 2:06-CV-00703-JCC, US District Court, Western District of Washington at Seattle), a case that included a ***patent dispute*** involving storage architecture and backup/recovery systems. Researched products and specs, including finding prior art resulting in a USPTO reexamination.
17. February 2006: **JAMS**, San Francisco, CA. Independent Expert Consultant for both parties, creating forensic disk drive images for a discovery order in *Meir Avganim, et al. v. Jane E. Ratto, et al.* (Case No. CV 054204, California Superior Court, Marin County), a ***business ownership dispute***.
18. January-February 2004: **Morgan, Lewis & Bockius, LLP** (formerly through **Drinker, Biddle & Reath, LLP**), Philadelphia, PA. Expert Consultant for defendant Hewlett-Packard Co. in *Neubauer, et al. v. Intel, Hewlett-Packard Co., et al.* (Case No. 02-L-788, Third Judicial Circuit Court, Madison County, Illinois), a case involving ***false advertising*** regarding Intel Pentium processor performance. Performed testing and analysis.
19. August 2003: **Law Offices of Baughman & Wang**, San Francisco, CA. Expert Consultant performing a website download and its investigation in an ***undisclosed case***.
20. July 2003: **Fenwick & West, LLP**, Mountain View, CA. Expert Consultant for defendant VIA Technologies, Inc., in *MediaTek, Inc. v. VIA Technologies, Inc. and*

Brian A. Berg: Curriculum Vitae

AOpen, Inc. (Case No. 02-05016 DDP (RNBx), US District Court, Central District of California, Western Division), a **copyright and trade secrets dispute** involving servo software and embedded firmware for an ATAPI CD-ROM controller chip. Performed CD-ROM controller chip source code analysis work.

21. May-July 2003: **Orrick, Herrington & Sutcliffe, LLP**, Menlo Park, CA and Irvine, CA. Expert Consultant for defendant AOpen, Inc., in MediaTek, Inc. v. VIA Technologies, Inc. and AOpen, Inc. (Case No. 02-05016 DDP (RNBx), US District Court, Central District of California, Western Division), a **copyright and trade secrets dispute** involving servo software and embedded firmware for an ATAPI CD-ROM controller chip. Analyzed CD-ROM controller chip source code.
22. February-April 2003: **Merchant & Gould, PC**, Denver, CO, and **Holland & Hart, LLP**, Boulder, CO. Expert Consultant for plaintiff in PowerQuest v. V Communications, Inc., Quarterdeck Corp. and Symantec Corp. (Case No. 2:97-CV-0783S, US District Court, Central District of Utah), a **patent dispute**. Investigated disk partitioning and imaging products re: their potential patent infringement.
23. February-March 2003: **Trop, Pruner & Hu, PC**, Houston, TX. Expert Consultant investigating DVD formatting issues in an **undisclosed case**.
24. October 2002-March 2003: **Wilson, Sonsini, Goodrich & Rosati, PC**, Palo Alto, CA. Expert Consultant for plaintiff in Broadcom Corp. v. Intel Corp. (Case No. 5:02-CV-302-DF (CMC), US District Court, Eastern District of Texas) and related counter cases, all of which were **patent disputes**. Performed prior art investigative work.
25. March 2002: **Epstein, Becker & Green, PC**, San Francisco, CA. Expert Consultant for defendant in Daniel Guhr v. SAP Markets, Inc., *et al.* (Case No. CV 805618, California Superior Court, Santa Clara County), a **wrongful termination dispute**. Investigated the contents of a laptop computer and its hard disk.
26. February 2002: **Alioto & Alioto, LLP**, San Francisco, CA. Expert Consultant converting the format of a folder of email files in an **undisclosed case**.
27. November 2000-December 2007: **Morgan, Lewis & Bockius, LLP** (formerly through **Drinker, Biddle & Reath, LLP**), Philadelphia, PA. Expert Consultant for defendant in Stephen Grider, *et al.* v. Compaq Computer Corp. (Case No. CJ-03-969 L, Oklahoma District Court, Cleveland County) and Muzette Alvis v. Hewlett-Packard Co. (Case No. 1:99-CV-714, US District Court, Eastern District of Texas, Beaumont Division), actions involving an alleged **defective floppy disk controller chip**. Performed hardware and software testing and analysis. Assisted in depositions.
28. July 2000: **Wilson, Sonsini, Goodrich & Rosati, PC**, Palo Alto, CA. Expert Consultant for defendant in Magellan Corp. v. Global Locate. Performed a **file system investigation** on some storage media.
29. May-June 2000: **Bergeson & Eliopoulos, LLP**, San Jose, CA. Expert Consultant for defendant in Adaptec, Inc. v. Brocade Communications (Case No. CV 789393, California

Brian A. Berg: Curriculum Vitae

Superior Court, Santa Clara County), a *trade secrets dispute*. Assisted during depositions and meetings re: the current state of Fibre Channel and SCSI products and technology.

30. May-June 2000: **Brobeck, Phleger & Harrison, LLP**, Palo Alto, CA. Expert Consultant for plaintiff in Molecular Dynamics, Inc., v. Bio-Rad Laboratories, Inc., a *patent dispute*. Analyzed aspects of US Re. 34,214 (“Method and apparatus for microphotomentering microscope specimens”).
31. July 1999: **Peter S. Menell**, Professor of Law, Executive Director, Berkeley Center for Law and Technology, University of California at Berkeley School of Law (Boalt Hall). Expert Consultant to Prof. Menell, and hence the defendant, in Microsoft Corp. v. IRS Commissioner (Docket No. 16878-96), a *tax liability dispute*. Provided perspective on the practice of US 4,825,358 (“Method and operating system for executing programs in a multi-mode microprocessor”) and US 4,974,159 (“Method of transferring control in a multitasking computer system”).
32. July-September 1998: **McCutchen, Doyle, Brown & Enersen, LLP**, San Francisco, CA. Expert Consultant for defendant in Advanced Fibre Communications, Inc. v. Acer Netxus, Inc. (Case No. 74-117-00485-97, AAA, New York Regional Office), a *trade secrets dispute*. Performed source code analysis.
33. May-August 1998: **Sideman & Bancroft, LLP**, San Francisco, CA. Expert Consultant for plaintiff in Avant! Corp. v. Silicon Access, Inc., a *trade secrets dispute*. Investigated UNIX and Windows files and file relics.
34. April-May 1998: **Kelly & Associates**, Santa Barbara, CA. Expert Consultant, performing investigation and study of US 4,437,159 (“Cooking computer”).
35. September-November 1996: **Arnold, White & Durkee, PC**, Houston, TX. Expert Consultant for respondent Samsung in ITC Investigation No. 337-TA-381, for which TI was the complainant. The action was a *patent dispute* involving US 4,884,674 and US 5,216,613 (both titled “Segmented asynchronous operation of an automated assembly line”). Performed binary code disassembly and study.
36. May-June 1996: **Skjerven, Morrill, MacPherson, Franklin & Friel, LLP**, San Jose, CA. Expert Consultant for defendant in Northern Telecom v. Samsung, performing data analysis.
37. December 1995-December 2002: **O’Melveny & Myers, LLP**, San Francisco, CA. Expert Consultant for defendant in Cadence Design Systems, Inc., v. Avant! Corp. (Case No. C 95-20828 RMW PVT, Northern California District Court) and People v. Avant! Corp., et al. (Case No. 210570, California Superior Court, Santa Clara County), civil and criminal *trade secrets disputes*. Performed extensive technical analysis of IC CAD source code and related materials.
38. October 1995-January 1996: **McCutchen, Doyle, Brown & Enersen, LLP**, San Francisco, CA. Expert Consultant for defendant in Transoft Corp. v. FWB Software, Inc.

Brian A. Berg: Curriculum Vitae

(Case No. C 95-2339 RG (JGx), Central California District Court), a *trade secrets dispute*. Performed computer source code analysis.

39. September 1995-September 1997: **Skjerven, Morrill, MacPherson, Franklin & Friel, LLP**, San Jose, CA. Expert Consultant for defendant in Actel Corp. v. QuickLogic Corp. (Case No. C 94-20050 JW PVT, Northern California District Court), a *patent dispute*. Performed data analysis.
40. August 1995-January 1996: **Skjerven, Morrill, MacPherson, Franklin & Friel, LLP**, San Jose, CA. Expert Consultant for defendant in DSC Communications Corp. *et al.* v. Next Level Communications, *et al.* (Case No. 4:95-CV-96, US District Court, Eastern District of Texas, Sherman Division), a *trade secrets dispute*. Performed source code analysis.
41. November 1994-March 1995: **Skjerven, Morrill, MacPherson, Franklin & Friel, LLP**, San Jose, CA. Expert Consultant for plaintiff in Quarterdeck Office Systems v. Weinstein, *et al.* (Case No. 129437, California Superior Court, Santa Cruz County), a *trade secrets dispute*. Performed source code analysis and comparisons.

LAW FIRM CONSULTING EXPERIENCE

1. September-November 2021, March 2023: **Bunsow De Mory, LLP**, Redwood City, CA. Analyzed two sets of patents.
2. July 2020: **Sheppard, Mullin, Richter & Hampton, LLP**, Palo Alto, CA. Analyzed a patent.
3. August-October 2011: **Young, Basile, Hanlon & MacFarlene, PC**, Troy, MI. Analyzed a set of patent portfolios.
4. May 2011: **Kilpatrick, Townsend & Stockton, LLP**, San Francisco, CA. Analyzed a set of flash memory patents and related intellectual property.
5. January 2010: **Dergosits & Noah, LLP**, San Francisco, CA. Studied DVD recording techniques.
6. June-October 2008: **Sidley Austin, LLP**, Chicago, IL. Analyzed a number of hardware and software products and created infringement claim charts for a set of flash memory and file system patents.
7. August 2007: **Kirkland & Ellis, LLP**, San Francisco, CA. Searched for and analyzed prior art in a patent invalidation investigation.
8. September-November 2005: **Dewey Ballantine, LLP**, East Palo Alto, CA. Analyzed a large patent portfolio of USB and IEEE 1394 patents and a number of potentially infringing marketplace products.

Brian A. Berg: Curriculum Vitae

9. August-September 2005: **Mount & Stoelker, PC**, San Jose, CA. Analyzed source code as part of a patent infringement investigation.
10. February 2004: **Thelen, Reid & Priest, LLP**, San Jose, CA. Analyzed various versions of disk drive firmware.
11. February 2001-March 2002: **Sidley, Austin, Brown & Wood, LLP**, Dallas, TX. Analyzed some RAID storage systems for a patent infringement investigation.
12. October 1999-June 2000: **Brobeck, Phleger & Harrison, LLP**, Palo Alto, CA and Intel Corp., Santa Clara, CA. Analyzed some marketplace products in a patent infringement investigation.
13. January-May 1999: **Brown & Bain, PA**, Palo Alto, CA. Consultant to Mylex Corp. in a trade secrets investigation involving Raidtec Corp. and Network Attached Storage (NAS) technology.
14. April-May 1995: **Townsend and Townsend and Crew, LLP**, Palo Alto, CA. Performed claim interpretation tasks for US 4,975,828 (“Multi-channel data communications controller”).
15. September 1994: **Townsend and Townsend and Crew, LLP**, Palo Alto, CA. Assisted in a patent portfolio valuation prior to the purchase of a major corporation.
16. June 1994-May 1995: **Townsend and Townsend and Crew, LLP**, Palo Alto, CA. Investigated technical issues related to Intel microprocessor memory management.

OTHER CONSULTING ENGAGEMENTS

1. 2018: **Williams & Connolly, LLP**. Analyzed microprocessor performance issues, including regarding speculative execution.
2. 2018: **Formulus Black**. Engaged re: the operational characteristics of the company’s in-memory computing products.
3. 2017-2018: **Hagens Berman Sobol Shapiro, LLP**. Analyzed disk drive reliability issues.
4. 2017: **Morrison & Foerster, LLP**. Analyzed the operational characteristics of some data storage and server products.
5. 2015: **Steelcase, Inc.** Analyzed the failure characteristics of some flash memory-based devices used within a company product line.
6. 2014: **Open-E, Inc.** Analyzed company storage products re: their networked environment operation.

Brian A. Berg: Curriculum Vitae

7. 2007-present: **Conference Concepts, Inc.** Technical Chair of the annual Flash Memory Summit conference, with responsibilities including organizing technical sessions, selection of Lifetime Achievement and industry excellence awards, serving on the Conference Advisory Board and Executive Committee, chairing the Software and AI track committees, and contributions to the historic timeline and conference website.

EDUCATION

- Stanford University, Stanford, CA: CS/EE graduate work (1975-78, part-time).
- Pacific Lutheran University, Tacoma, WA: B.S. Mathematics, 1974.
- CopyrightX (online course in Copyright Law), Harvard Law School, May 2013.

PUBLIC SPEAKING AND CONFERENCE PARTICIPATION

Storage Conferences

- China Flash Forum, Beijing, CHINA (5 November 2015)
 - Keynote: *How Flash Memory Became the World's Most Important Storage Technology*
- Flash Memory Summit (FMS), Santa Clara, CA
 - 2011-present: Technical Chair
 - 2007-present: Executive Committee and Conference Advisory Board member
 - 2009-present: *Flash Memory-Based Architectures: A Technical Discussion* Tutorial Originator, Organizer and Chair
 - 2011-present: Awards Committee member
 - 2012-present: Lifetime Achievement Award Committee member
 - 2012-present: Flash Memory Timeline Committee member
 - 2013-2015: *Technical Tutorials* Originator and Organizer
 - 2015-2019: Organizer for sessions on Automotive, Big Data, Analytics, Cloud, Hyperscale, Ceph (open source distributed object, block and file storage), Computational Storage, Internet of Things, Wearables, Artificial Intelligence and Machine Learning, *Special Invited Talks* and Flash History
 - 2018-2019: Software Committee Chair
 - 2007: *Flash Security Standards and Requirements* and *Software for Flash-Based Systems* (2 sessions): Session Chair
- Storage Visions (SV) Conference, Las Vegas, NV
 - 2007-2018: Conference Advisory Board member
 - 2017-2018: Session Chair
- Software-Defined Infrastructure (SDI) Summit, Santa Clara, CA
 - 2015: Conference Advisory Board member
- Open Storage Summit (OSS) (formerly Server Design Summit), Santa Clara, CA
 - 2010-2015: Conference Advisory Board member
 - 2012: *Increasing Storage Performance* Session Chair
 - 2011: *Keeping up with CPU Data Demands* Session Chair
 - 2010: *Virtual Machines* Session Chair
- Ethernet Technology Summit (ETS), San Jose, CA
 - 2009-2016: Conference Advisory Board member
 - 2013: *Best Practices for High-Capacity Storage Network Designs* Panel Chair

Brian A. Berg: Curriculum Vitae

- o 2012: *Fibre Channel over Ethernet* Tutorial Chair
 - o 2011: *Fibre Channel over Ethernet* Tutorial Chair
 - o 2010: *Fibre Channel over Ethernet: Marketplace Applications* Tutorial Chair
- Netbook Summit (NBS), Burlingame, CA
 - o 2010: Conference Advisory Board member
 - o 2010: *Improving the Netbook Experience* Tutorial Chair
- Server Blade Summit (SBS), San Jose, CA
 - o 2004-2006: Conference Advisory Board member
 - o 2005: *Interfaces* Session Chair and *Getting the Most from Your Blade Servers* Tutorial Chair
 - o 2004: *Blade Standards* and *Storage Architectures* (2 sessions): Session Chair
- Storage Area Networks (SAN) Conference, San Jose, CA:
 - o 1999-2002: Conference Advisory Board member
 - o 2002: *iSCSI and Storage Management* (2 sessions): Session Chair
 - o 2001: *Storage Over Ethernet and IP* (2 sessions): Session Chair
 - o 2000: *Storage Management Software* Session Chair
 - o 1999: *SAN Software* Session Chair
- Fibre Channel Technologies Conference (FCTC), San Jose, CA:
 - o 1998-2001: Conference Advisory Board member
 - o 2001: *Storage Management Software* and *SAN File Systems* (2 sessions): Session Chair
 - o 2000: *Relationships with SCSI* Session Chair
 - o 1999: *Relationships with SCSI* Session Chair
 - o 1998: *Networking Applications* Session Chair
- DAFS DevCon: First Direct Access File Systems Developers Conference, Durham, NC:
 - o 2000: *Independent Software Vendors: Technical Orientation* Session Chair and Speaker
- InfoStor '98, San Jose, CA
 - o 1998: *Storage Implications of Windows NT 5.0* Session Chair
- Optical Information Systems (OIS) Conferences:
 - o 1992: London, ENGLAND: chaired two sessions and gave one talk
 - o 1991: London, ENGLAND: chaired two sessions and gave one talk
 - o 1990: London, ENGLAND: chaired two sessions and gave two talks
 - o 1990: Washington, DC: chaired one session
 - o 1989: Washington, DC: chaired one session and gave one talk
 - o 1988: Washington, DC: chaired one session and gave one talk
 - o 1987: New York, NY: chaired one session and gave one talk
 - o 1987: Los Angeles, CA: gave one talk

Other Conferences and Events

- Computer History Museum, Mountain View, CA
 - o August 2014: Moderator for *From Mainframe to Smartphone: What an Amazing Trip It's Been* with Dr. Dileep Bhandarkar of Qualcomm Technologies, Inc.
- IEEE Silicon Valley Technology History Committee, Santa Clara, CA
 - o Sept. 2015: Organized and moderated *How Non-Volatile Memory Became the World's Most Valuable Semiconductor Storage*

Brian A. Berg: Curriculum Vitae

- IEEE Women in Engineering International Leadership Conference (ILC), San Jose, CA
 - Program Committee Member (2014-2015)
 - April 2015: Entrepreneurship session chair
- IEEE Global Humanitarian Technologies Conference, San Jose, CA
 - Program Committee Member (2013)
- IEEE SmartTech Metro Area Workshop, Santa Clara, CA
 - Program Chair (2012)
- Carnegie Mellon University, Silicon Valley Campus, Moffett Field, CA
 - May 2011, June 2012: *Fundamental Consulting Skills* class lecturer
- Asilomar Microcomputer Workshop, every April in Pacific Grove, CA
 - Conference Chair (1997-2000)
 - Organizing Committee Member and Session Chair (1989-present)
 - Speaker (1987-present)
- Farella Braun + Martel, LLP: Intellectual Property Program speaker. Palo Alto, CA
 - *How to Communicate Technical Issues to a Non-Technical Audience* (approved for MCLE credit by the State Bar of California): 2009
- IEEE-CNSV (Consultants' Network of Silicon Valley), Sunnyvale, CA and Santa Clara, CA:
 - Speaker (2001, 2002, 2003, 2008, 2009, 2015)
 - Monthly Program Chair (2006-present)
- IEEE-CNSV/PATCA Consultants' Business Seminar, Sunnyvale, CA and Santa Clara, CA:
 - Speaker (1998, 1999, 2000, 2005)
- PATCA, Santa Clara, CA: Meeting Speaker (2002, 2007, 2009)
- WESCON, San Francisco, CA: Speaker in three Consultants' Clinic sessions (2003)

PUBLICATIONS

Books

1. Digital Storage in Consumer Electronics: The Essential Guide, 2nd Edition (contributing book editor); Springer International Publishing AG, Cham, SWITZERLAND, 2018.
2. Digital Storage in Consumer Electronics: The Essential Guide (contributing book editor); Elsevier, Inc., Burlington, MA, 2008.
3. Essential Guide to Multifunction Optical Storage (author of chapter on SCSI and rewritable and multifunction drive software); Meckler Corp., Westport, CT, 1991.
4. Rewritable Optical Storage Technology (author of chapter on SCSI and rewritable and multifunction drive software); Meckler Corp., Westport, CT, 1991.
5. Software for Optical Storage (lead editor; author of 3 chapters), Meckler Corp.; Westport, CT, 1989. 249 pp.

Journals, Periodicals and Newsletters

1. InfoStor: author of *RAID, I2O and NT: Making the Synergy Happen*, January 1998; Pennwell Publishing Co., Tulsa, OK.
2. The Ancot Connection (quarterly newsletter): author of *SCSI Observations from the Field* column; Ancot Corp., Menlo Park, CA (1994-98).
3. Computer Technology Review: author of *Solving SCSI's Cable Length Dilemma*, February 1997; WestWorld Productions, Inc., Beverly Hills, CA.

Brian A. Berg: Curriculum Vitae

4. EDN Products Edition: author of *SCSI Software... Issues and Resources*, Technology Focus, July 18, 1994; Cahners Publishing Co., Newton, MA.
5. Stacks: The Network Journal: author of *SCSI: An Integrator's Resource Guide*, the August 1993 cover article; M&T Publishing/Miller Freeman, Inc.
6. Systems Integration Business/Mini-Micro Systems magazines: Disk Roundtable participant (1991); wrote six articles and sidebars on SCSI and optical storage (1987-91).
7. Optical Information Systems, Meckler Corp. (bi-monthly): editorial board member and contributing writer (1987-91).

PROFESSIONAL ORGANIZATIONS AND AFFILIATIONS

1. Asilomar Microcomputer Workshop: Organizing Committee Member and Past Chair
2. Association for Computing Machinery (ACM): Member
3. Computer History Museum: Core Member
4. Flash Memory Summit (FMS): Technical Chair
5. Forensic Expert Witness Association (FEWA): Member
6. Institute of Electrical and Electronics Engineers (IEEE)
 - o Senior Member
 - o Santa Clara Valley (SCV) Section (IEEE's largest Section at 12,000 members):
 - Chair (2012), Vice Chair (2011), Secretary (2010)
 - o SCV Section Liaison to Women in Engineering (WIE) Chapter (2013-15)
 - o SCV Section History Committee: Chair (2015-2020); Co-Vice-Chair (2013-15)
 - o Region 6: Milestone Coordinator (2015-present), History Chair (2019-present)
7. IEEE Consultants' Network of Silicon Valley (IEEE-CNSV)
 - o Chapter Chair: 2006-07
 - o Board Director: 2008-11, 2013-present
 - o At-Large Director: 2012
8. Professional and Technical Consultants Association (PATCA): Senior Member
9. Storage Networking Industry Association (SNIA): Member
10. Storage Visions (SV): Conference Advisory Board Member

IEEE AWARDS AND REGIONAL IEEE INVOLVEMENT

1. Institute of Electrical and Electronics Engineers (IEEE) Awards
 - o Recipient of 2020 *SCV Section Chair's Special Award for Outstanding Leadership in Organizing Events Honoring Historical Technology Innovations*
 - o Recipient of 2019 *SCV Section Chair's Special Award for Outstanding Leadership and Valued Contributions*
 - o Recipient of 2017 *IEEE-USA Regional Professional Leadership Award* for "outstanding services to the Consulting and Electrical Engineering profession."
 - o Recipient of 2017 *Outstanding Service and Leadership to the IEEE Award* (Region 6 [10 western states]; Santa Clara Valley Section)
 - o Recipient of 2012 *Outstanding Leadership and Professional Service Award* (Region 6; Region 6 Central Area; Santa Clara Valley Section)
2. IEEE Region 6 Milestone Coordinator (2013-present) and History Chair (2019-present)
3. IEEE History Committee member (2021-present)

Brian A. Berg: Curriculum Vitae

IEEE MILESTONE WORK

1. **The Floating Gate EEPROM and Data Storage in Flash Memory, 1976-1978**
 - o Initiated and co-authored the proposal
 - o August 2012 dedication co-organizer and speaker at events held at the Computer History Museum and at Flash Memory Summit
2. **SHAKY, The World's First Mobile Intelligent Robot, 1972**
 - o Initiated and co-authored the proposal
 - o February 2017 dedication co-organizer and MC at Computer History Museum
 - o Funded installation of duplicate plaque at Computer History Museum
3. **Public Demonstration of Online Systems and Personal Computing, 1968**
 - o Assisted with proposal submission for Doug Engelbart's famous Demo
 - o March 2017 dedication co-organizer and speaker at Computer History Museum
4. **The CP/M Microcomputer Operating System and BIOS, 1974**
 - o April 2014 dedication co-organizer and MC in Pacific Grove, CA
 - o April 2017: funded duplicate plaque for the Naval Postgraduate School, Monterey, CA, and spoke at its dedication
5. **Development of CDMA for Cellular Communications, 1989**
 - o Helped initiate the proposal, and did work leading to its approval
 - o November 2017 dedication speaker at Qualcomm, San Diego
6. **DIALOG Online Search System, 1966**
 - o Authored the proposal
 - o May 2019 dedication co-organizer and MC at Lockheed Martin Space
7. **Apollo 11 Lunar Laser Ranging Experiment (LURE), 1969**
 - o Authored the proposal
 - o August 2019 co-organizer and MC at two dedication events
8. **Gravitational-Wave Antenna, 1972-1989**
 - o Supported Milestone proposal for 3 sites: two in the U.S. and one in Italy
 - o Attended IEEE History Committee meeting when proposal was approved
 - o Coordinated creation of GWAMilestone.com website
 - o February 2021 online dedication co-organizer and MC
9. **Introduction of the Apple I Computer, 1976**
 - o Wrote portions of the proposal
 - o Milestone has been approved but not yet dedicated
10. **Introduction of the Apple II Computer, 1977-1978**
 - o Wrote portions of the proposal; documented the Disk II floppy drive
 - o Milestone has been approved but not yet dedicated
11. **Introduction of the Apple Macintosh Computer, 1984**
 - o Wrote most of the proposal; documented patents practiced in the original 1984 Macintosh 128K machine
 - o Milestone has been approved but not yet dedicated
12. **Intel 4004 Microprocessor, 1971**
 - o Initiated and wrote much of the proposal while working with the three Intel 4004 design team members, and David Laws of the Computer History Museum
 - o Milestone has been approved but not yet dedicated
13. **Universal Serial Bus (USB), 1996**
 - o Initiated and wrote the proposal

Brian A. Berg: Curriculum Vitae

- o Milestone has been approved but not yet dedicated
- 14. Manchester University “Baby” Computer and its Derivatives, 1948-1951**
 - o Worked with four British historians as the History Committee Advocate
 - o June 2022 dedication speaker at the University of Manchester, UK
- 15. Atlas Computer and the Invention of Virtual Memory, 1957-1962**
 - o Worked with four British historians as the History Committee Advocate
 - o June 2022 dedication speaker at the University of Manchester, UK
- 16. Development of Computer Graphics and Visualization Techniques, 1965-1978**
 - o History Committee Advocate for this proposal
 - o March 2023 dedication MC and speaker at the University of Utah
- 17. IEEE Standard 754 for Binary Floating-Point Arithmetic, 1978-1985**
 - o History Committee Advocate for this Milestone
 - o May 2023 dedication speaker at the University of California, Berkeley
- 18. The Development of RenderMan for Photorealistic Graphics, 1981-1989**
 - o Initiated and wrote the proposal, working with a team from Pixar
 - o Milestone will be dedicated at Pixar in December 2023
- 19. Origin of the IEEE 802 Family of Networking Standards, 1980-1999**
 - o History Committee Advocate for this Milestone
 - o Milestone will be dedicated in March 2024
- 20. Ethernet Local Area Network (LAN), 1973-1985**
 - o History Committee Advocate for this Milestone
 - o Milestone will be dedicated in May 2024
- 21. Intel 8087 Math Coprocessor, 1980**
 - o History Committee Advocate for this Milestone
 - o Milestone will be dedicated in July 2024
- 22. Deep Space Station 43, 1972-1987**
 - o History Committee Advocate for this Milestone
 - o Milestone has been approved but not yet dedicated near Canberra, AUSTRALIA