

BILL LIN
Curriculum Vitae
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EDUCATION

- **Ph.D.**, Electrical Engineering and Computer Sciences
University of California, Berkeley, May 1991
- **Masters of Science**, Electrical Engineering and Computer Sciences
University of California, Berkeley, May 1988
- **Bachelor of Science**, Electrical Engineering and Computer Sciences
University of California, Berkeley, May 1985

PROFESSIONAL EXPERIENCE

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| 1/1997 – present | University of California, San Diego
Department Chair, Electrical and Computer Engineering
Professor, Electrical and Computer Engineering |
| 2/1992 – 12/1996 | IMEC, Leuven, Belgium
Group Head, Systems Control and Communications Group |

AREAS OF EXPERTISE

- All aspects of computer networks and computer architecture problems, including the design of data networks, high-performance switches and routers, high-performance packet monitoring and measurements, wireless communications and mobile computing, multimedia and graphics systems, many-core processors, and systems-on-chip designs. Source code analysis for communications and computing applications.

PROFESSIONAL ACTIVITIES

- Served or serving as Editor on 3 ACM or IEEE journals, as General Chair on 4 ACM or IEEE conferences, on the Organizing or Steering Committees for 5 ACM or IEEE conferences, and on the Technical Program Committees of 45 ACM or IEEE conferences.

SELECTED PROFESSIONAL ACTIVITIES

- General Chair, ACM/IEEE Symposium on Architectures for Networking and Communications Systems (ANCS), 2010
- Chair of Steering Committee, ACM/IEEE Symposium on Architectures for Networking and Communications Systems (ANCS), 2010-present (Chair since 2012)
- Guest Editor, IEEE Transactions on Network and Service Management (TNSM), 2012-2013
- General Co-Chair, ACM SIGMETRICS, 2015
- General Chair, ACM/IEEE International Symposium on Quality-of-Service (IWQoS), 2011
- Steering Committee, ACM/IEEE International Symposium on Quality-of-Service (IWQoS), 2011-present
- Associate Editor, ACM Transactions on Design Automation and Electronics Systems (TODAES), 2010-2015
- Editorial Board, International Journal of Embedded Systems, 2003-present
- General Chair, ACM/IEEE Symposium on Networks-on-Chips (NOCS), 2009

PUBLICATIONS

- Published over 200 journal articles and conference papers in top-tier venues and publications.

PATENTS

- Mitigating Low-Rate Denial-of-Service Attacks in Packet-Switched Networks. United States Patent 8,443,444. Issued in May 14, 2013.
- Systems and Methods for Proactive Surge Protection. United States Patent 7,860,004. Issued in December 28, 2010.
- Method and Apparatus for Scan Block Caching. United States Patent 7,672,005. Issued in March 2, 2010.
- Design Environment and a Design Method for Hardware/Software Co-Design. United States Patent 5,870,588. Issued in February 9, 1999.
- System and Method for Generating a Hazard-Free Asynchronous Circuit. United States Patent 5,748,487. Issued in May 5, 1998.

EXPERT WITNESS HISTORY (BILL LIN)

I have served as an expert witness in 34 engagements (most engagements involved multiple patents in suit and multiple matters), of which I wrote expert reports or declarations in 22 engagements, analyzed source code in 14 engagements, was deposed 22 times, and testified at trial 4 times. The specific engagements and services provided are as follows:

1. Vizio, Inc. v. LG Electronics, Inc. and LG Electronics USA Inc., Civil Action No. 09-cv-1481-BEL
 - Expert witness on behalf of Vizio, Inc.
 - Law firm: Jones Day.
 - Services provided: Provided expert report, analyzed source code.
 - Technologies: Digital TV.
2. Vizio Inc. v. LG Electronics, Inc. and LG Electronics USA Inc., In the Matter of CERTAIN FLAT PANEL DIGITAL TELEVISIONS AND COMPONENTS THEREOF, U.S. International Trade Commission Inv. No. 337-TA-733
 - Expert witness on behalf of Vizio, Inc.
 - Law firm: Jones Day.
 - Services provided: Provided expert report, analyzed source code.
 - Technologies: Digital TV.
3. Vizio Inc. v. Coby Electronics Corp., Curtis International Ltd., E&S International Enterprises, Inc., MStar Semiconductor, Inc., ON Corp US, Inc., Renesas Electronics Corporation, Japan, Renesas Electronics America, Inc., Sceptre, Inc., and Westinghouse Digital, LLC, In the Matter of CERTAIN DIGITAL TELEVISIONS AND COMPONENTS THEREOF, U.S. International Trade Commission Inv. No. 337-TA-789
 - Expert witness on behalf of Vizio, Inc.
 - Law firm: Jones Day.
 - Services provided: Provided expert reports, was deposed, analyzed source code.
 - Technologies: Digital TV.
4. Linex Technologies Inc. v. Hewlett-Packard Company, Apple Inc., Aruba Networks, Inc., Meru Networks, and Ruckus Wireless, In the Matter of CERTAIN WIRELESS COMMUNICATION DEVICES AND SYSTEMS, COMPONENTS THEREOF, AND PRODUCTS CONTAINING SAME, U.S. International Trade Commission Inv. No. 337-TA-775
 - Expert witness on behalf of Hewlett-Packard Company, Apple Inc., Aruba Networks, Inc., Meru Networks, and Ruckus Wireless
 - Law firms: Covington & Burling, K&L Gates, Morrison & Foerster, Lewis Roca & Rothgerber.
 - Services provided: Provided expert reports, was deposed, analyzed source code.
 - Technologies: WiFi networks.
5. MOSAID Technologies, Inc. v. Dell, Inc., Qualcomm Atheros, Inc., et al., Case No. 2:11-cv-00179-TJW
 - Expert witness on behalf of Qualcomm Atheros, Inc.
 - Law Firm: McDermott Will & Emory.
 - Services provided: Provided expert analysis.
 - Technologies: WiFi networks.
6. Hitachi Consumer Electronics Co. Ltd., et al. v. Top Victory Electronics (Taiwan) Co. Ltd., et al., Civil Action No. 2:10-cv-260-JRG.
 - Expert witness on behalf of Vizio, Inc.
 - Law Firm: Akin Gump Strauss Hauer & Feld
 - Services provided: Provided expert reports, analyzed source code.
 - Technologies: Digital TV.

7. United States International Trade Commission (USITC) Investigation Number: 337-TA-853 and Technology Properties Limited, LLC v. Kyocera Corporation and Kyocera Communications, Inc. in the Northern District of California, Case No. 3:12-cv-03860-JSC
 - Expert witness on behalf of Kyocera Corporation and Kyocera Communications.
 - Law firm: Morrison & Foerster.
 - Services provided: Provided expert analysis.
 - Technologies: Cell phones, microprocessors.
8. Netgear, Inc. v. Ruckus Wireless, Inc., Case No. 1:10-cv-00999-SLR / D. Del.
 - Expert witness on behalf of Ruckus Wireless, Inc.
 - Law firms: Lewis Roca & Rothgerber, Orrick.
 - Services provided: Provided expert report, analyzed source code, was deposed, and testified at trial.
 - Technologies: WiFi networks.
9. Sonics, Inc. v. Arteris, Inc., Case No. 11 CV-05311 SBA, and Arteris S.A.S. v. Sonics, Inc., Case No. C 12-00434 (WHA)
 - Expert witness on behalf of Arteris, Inc. and Arteris S.A.S.
 - Law firm: DLA Piper.
 - Services provided: Retained as an expert.
 - Technologies: Systems-on-Chips (SoCs).
10. Linx Technologies Inc. v. Hewlett-Packard Company, Apple Inc., Aruba Networks, Inc., Meru Networks, and Ruckus Wireless, U.S. District Court, Northern District of California, C 13-00159 CW
 - Expert witness on behalf of Hewlett-Packard Company, Apple Inc., Aruba Networks, Inc., Meru Networks, and Ruckus Wireless
 - Law firms: Covington & Burling, Milbank, K&L Gates, Morrison & Foerster, Lewis Roca & Rothgerber.
 - Services provided: Provided expert reports, analyzed source code.
 - Technologies: WiFi networks.
11. Frontier Communications Corp. v. Google, C.A. No. 10-545 (D. Del)
 - Expert witness on behalf of Frontier Communications Corp.
 - Law firm: Steese, Evans & Frankel
 - Services provided: Provided source code analysis.
 - Technologies: Voice over IP.
12. U.S. Ethernet Innovations LLC v. Acer, Inc. et al., Case No. 10-cv-3724 (N.D. Cal.)
 - Expert witness on behalf of Qualcomm Atheros, Inc., Sigma Designs, Inc., and AT&T Services, Inc.
 - Law firms: Reed Smith LLP, Pillsbury Winthrop Shaw Pittman LLP, and Vinson & Elkins LLP.
 - Services provided: Provided expert reports, was deposed, analyzed source code.
 - Technologies: Intelligent network interfaces, data center networks.
13. Inter Partes Review of U.S. Patents.
 - Expert witness on behalf of Netgear, Inc. and Belkin International, Inc.
 - Law firm: Reed Smith LLP.
 - Services provided: Provided declaration for IPR petition.
 - Technologies: Wireless networks.
14. Inter Partes Review of U.S. Patents.
 - Expert witness on behalf of Arista Networks.
 - Law firm: Fish & Richardson.
 - Services provided: Provided declarations for IPR petitions, deposed 3 times.
 - Technologies: Network routers, data center networks.

15. Invalidity Expert Witness.
 - Expert witness on behalf of Intel Corp.
 - Law firm: Wilmer Cutler Pickering Hale and Dorr LLP.
 - Services provided: Provided expert analysis.
 - Technologies: WiFi networks, bluetooth networks.
16. Parthenon Unified Memory Architecture LLC v. HTC Corporation et al., Case No. 2:14-CV-690-JRG-RSP (E. D. Texas).
 - Expert witness on behalf of HTC Corporation and HTC America, Inc.
 - Law firm: Sidley Austin LLP.
 - Services provided: Retained as an expert.
 - Technologies: Memory architectures.
17. System Architecture Information Technology dba SAI Technology, Inc. v. Qualcomm Inc.
 - Expert witness on behalf of Qualcomm Inc.
 - Law firm: McDermott Will & Emory.
 - Services provided: Retained as an expert, provided reports, analyzed source code, was deposed, and testified at trial.
 - Technologies: WiFi networks.
18. Inter Partes Review of U.S. Patents.
 - Expert witness on behalf of Sandvine Corp.
 - Law firm: Erise IP.
 - Services provided: Provided declarations.
 - Technologies: Network monitoring and measurements.
19. Inter Partes Review of U.S. Patents.
 - Expert witness on behalf of Intel Corp., Cavium Inc., and Dell Inc.
 - Law firms: Weil, Gotshal & Manges LLP, Duane Morris LLP, Alston & Bird LLP.
 - Services provided: Provided declarations for IPR petitions, deposed 3 times.
 - Technologies: Intelligent network interfaces, data center networks, memory management.
20. Expert Witness.
 - Law firm: Covington & Burling.
 - Services provided: Retained as an expert.
 - Technologies: WiFi networks.
21. Qualcomm Inc. v. Apple Inc., Inv. No. 337-TA-1065 (ITC)
 - Expert witness on behalf of Apple Inc. and Intel Corp.
 - Law firm: Wilmer Cutler Pickering Hale and Dorr LLP.
 - Services provided: Provided expert reports/declarations, analyzed source code, was deposed.
 - Technologies: Mobile systems, application and modem processors, inter-processor communications, embedded software, processor and bus power management, memory management.
22. Qualcomm Inc. v. Apple Inc., Civ. Action No. 3:17-cv-01375-JAH-MDD (S.D. Cal.)
 - Expert witness on behalf of Apple Inc. and Intel Corp.
 - Law firm: Wilmer Cutler Pickering Hale and Dorr LLP.
 - Services provided: Provided expert reports/declarations, analyzed source code, deposed 2 times, and testified at trial.
 - Technologies: Mobile systems, application and modem processors, inter-processor communications, embedded software, processor and bus power management, memory management.

23. Inter Partes Review of U.S. Patents.
 - Expert witness on behalf of Panasonic Avionics Corp.
 - Law firm: Haynes and Boone LLP.
 - Services provided: Provided declarations for IPR petitions.
 - Technologies: Network security.
24. Inter Partes Review of U.S. Patents.
 - Expert witness on behalf of Intel Corp.
 - Law firm: Wilmer Cutler Pickering Hale and Dorr LLP.
 - Services provided: Provided declarations for IPR petitions, deposed 4 times.
 - Technologies: Mobile systems, application and modem processors, inter-processor communications, embedded software, power management, memory management.
25. Expert Witness.
 - Law firm: Wilmer Cutler Pickering Hale and Dorr LLP.
 - Services provided: Retained as an expert.
 - Technologies: Inter-processor communications and security.
26. Bell Northern Research LLC v. Coolpad Technologies, Inc. et al., Civil Action No. 3:18-cv-01783-CAB-BLM (S.D. Cal.)
 - Expert witness on behalf of Coolpad Technologies, Inc. and Yulong Computer Communications
 - Law firm: Perkins Coie LLP.
 - Services provided: Provided expert reports, analyzed source code, deposed.
 - Technologies: Processors, wireless communications, power management.
27. Inter Partes Review and Ex Partes Review of U.S. Patents.
 - Expert witness on behalf of Google LLC.
 - Law firm: Paul Hastings LLP.
 - Services provided: Provided declarations for IPR and Ex Partes Review petitions.
 - Technologies: Computer networks, wireless communications.
28. In the Matter of CERTAIN ROUTERS, ACCESS POINTS, CONTROLLERS, NETWORK MANAGEMENT DEVICES, OTHER NETWORKING PRODUCTS, AND HARDWARE AND SOFTWARE COMPONENTS THEREOF, U.S. International Trade Commission Inv. No. 337-TA-1227.
 - Expert witness on behalf of Hewlett Packard Enterprise, Netgear, and CommScope
 - Law firm: Morgan, Lewis & Bockius LLP.
 - Services provided: Provided expert reports, analyzed source code, deposed, and testified at trial.
 - Technologies: WiFi networks.
29. Inter Partes Review of U.S. Patents.
 - Expert witness on behalf of Intel Corp.
 - Law firm: Desmarais LLP.
 - Services provided: Provided declarations for IPR petitions.
 - Technologies: Computer systems.
30. PACT XPP Schweiz AG v. Intel Corp. 1:19-cv-1006-RGA (D. Del.).
 - Expert witness on behalf of Intel Corporation
 - Law firm: Kirkland & Ellis.
 - Services provided: Provided expert report, deposed.
 - Technologies: Multiprocessors, reconfigurable processors, power management.

31. Inter Partes Review of U.S. Patents.
 - Expert witness on behalf of Intel Corp.
 - Law firm: Wilmer Cutler Pickering Hale and Dorr LLP.
 - Services provided: Provided declarations for IPR petitions, deposed 1 time.
 - Technologies: Mobile systems, application and modem processors, embedded software, memory management.
32. Ex Partes Review of U.S. Patents.
 - Expert witness on behalf of Rapid7, Inc., and CrowdStrike Holdings
 - Law firm: Erise IP.
 - Services provided: Provided declarations for Ex Partes Review petitions.
 - Technologies: Computer networks and network security.
33. Inter Partes Review of U.S. Patents.
 - Expert witness on behalf of Google LLC.
 - Law firm: Paul Hastings LLP.
 - Services provided: Retained as expert.
 - Technologies: Telephony and teleconferencing.
34. Expert Witness.
 - Law firm: Sheppard, Mullin, Richter & Hampton LLP
 - Services provided: Retained as expert.
 - Technologies: Processors and chip design.