




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IEEE Fellow

Professor

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West Virginia University

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EDUCATION

Ph.D. in Electrical Engineering

Virginia Polytechnic Institute & State University (Virginia Tech), Blacksburg, VA, August 1999

M.S. in Electrical Engineering

Johns Hopkins University, Baltimore, MD, May 1995

B.S. in Electrical Engineering

Virginia Polytechnic Institute & State University (Virginia Tech), Blacksburg, VA, May 1992

PROFESSIONAL EXPERIENCE

West Virginia University, Lane Department of Computer Science and Electrical Engineering

Professor – 2010 to present

Associate Professor – 2005 to 2010

Assistant Professor – August 1999 to 2005

Administrative Capacities:

Raymond J. Lane Department Chair – July 2020 to June 2021

Interim Chair – July 2019 to June 2020

Center for Identification Technology Research (CITeR), an NSF I/UCRC

Director, WVU Site – August 2014 to present.

Virginia Tech, Bradley Department of Electrical and Computer Engineering

Bradley Fellow, Graduate Research Assistant, and Instructor – August 1995 to July 1999

U.S. Naval Research Laboratory, Washington, DC

Electronics Engineer – Summer 1991, May 1992 to August 1995

LICENSES

Professional Engineer (P.E.)

Registered in the state of West Virginia since 2011

Amateur Radio License

General Class. Call sign KC8NHN. Licensed since 1999

TECHNICAL EXPERT EXPERIENCE

1. Sidley Austin for Lenovo
Dates: 2022
Venue: United States District Court; District of Delaware
Cases: Interdigital Technology Corporation v. Lenovo Holding Company, Inc.,
Civil Action No. 19-1590-LPS
Technology: Wireless technology including control signaling for LTE and HSPA
Activity: Expert Reports (invalidity and noninfringement). Deposition (Aug. 26, 2022).
Case is ongoing with a pending trial.
2. Fish & Richardson for Apple
Dates: 2022
Venue: United States District Court; Eastern District of Texas Marshall Division
Cases: Ericsson, Inc. and Telefonaktiebolaget L.M. Ericsson v. Apple Inc.,
Civil Action No. 2:21-cv-0036
Technology: 5G NR wireless technology
Activity: Expert Reports (Patent portfolio technical evaluation and rebuttal). Deposition (Sept. 28, 2022).
Case is ongoing with a pending trial.
3. Fish & Richardson for Apple and its Brazilian entities
Dates: 2022
Venue: Brazil Courts: (1) 1st Business Court of the Capital District of Rio de Janeiro State (Case No. 0010664-19.2022.8.19.0001), and (2) Federal Court of Rio de Janeiro, 31st Court specialized in IP matters (Case No. 5016043-83.2022.4.02.5101)
Cases: (1) Telefonaktiebolaget L.M. Ericsson vs. Allied Tecnologia S.A. and (2) Apple Computer Brasil Ltda. and Allied Tecnologia S.A. vs. Telefonaktiebolaget L.M. Ericsson
Technology: Wireless technology including random access signaling for LTE
Activity: Expert Declarations (invalidity and noninfringement).
4. Erise IP for Apple
Dates: 2021-2022
Venue: United States Patent and Trademark Office
Cases: Petition for *Inter Partes* Review (IPR) of US Patent Nos. 8,023,990; 8,798,658; and 9,277,436 (all owned by Ericsson). IPR cases IPR2021-00459, IPR2022-00461, and IPR2022-00467 (petitioned by Apple Inc.). Request for Ex Parte Re-examination of US Patent No 10,476,722 (owned by Ericsson). Attorney Docket No. Apple.990
Technology: Wireless technology including LTE-A minimization of drive testing (MDT) and 5G NR synchronization
Activity: Expert Declarations (in support of IPR Petitions and Ex Parte Re-examination). Deposition (Sept. 21, 2022 for the '658 patent).
Case is ongoing.
5. Foley Hoag for Rideshare Displays, Inc.
Dates: 2021-2022
Venue: United States Patent and Trademark Office
Cases: Patent owner's response to *Inter Partes* Review (IPR) of US Patent Nos. 9,892,637; 10,169,987; 10,395,525; 10,559,199; and 10,748,417 (all owned by Rideshare Displays, Inc.). IPR cases IPR2021-01598 to IPR2021-01602 (petitioned by Lyft, Inc.)
Technology: Vehicle identification technology
Activity: Expert Declarations (in support of Patent Owner's responses to IPR Petitions, responses to Board's decision to institute, and motions to amend claims). Deposition (Sept. 9, 2022).

6. Fish & Richardson for LG Electronics, Inc., LG Electronics USA, Inc., Dell Inc., and Dell Technologies, Inc.
Dates: 2021-2022
Venue: United States Patent and Trademark Office
Cases: Petition for *Inter Partes* Review (IPR) of US Patent Nos. 8,467,366 and 10,833,908 (owned by Neo Wireless LLC). IPR cases IPR2021-01480 and IPR2022-00277 (petitioned by Dell Inc.)
Technology: Wireless technology including OFDM transmissions, random access, and ranging signals
Activity: Expert Declarations (in support of IPR Petitions).
7. Kirkland & Ellis for Samsung
Dates: 2021
Venue: United States Patent and Trademark Office
Cases: Petition for *Inter Partes* Review (IPR) of US Patent Nos. 8,023,990; 8,798,658; 9,277,436; and 10,476,722 (all owned by Ericsson). IPR cases IPR2021-00729, IPR2021-00537, IPR2021-00567, IPR2021-00486 (petitioned by Samsung Electronics Co., Ltd)
Technology: Wireless technology including LTE-A minimization of drive testing (MDT) and 5G NR synchronization
Activity: Expert Declarations (in support of IPR Petitions).
8. Kirkland & Ellis for Lenovo
Dates: 2020-2021
Venue: UK High Court
Cases: InterDigital Technology Corporation and others v Lenovo Group Limited and others (Claim No. HP-2019 000032)
Technology: Wireless technology including control signaling for LTE
Activity: Expert Report (invalidity, non-essentiality, two rebuttal reports). Court Testimony (UK bench trial): Mar. 5-9, 2021.
9. Fish & Richardson for LG Electronics, Inc.
Dates: 2019-2020
Venue: United States Patent and Trademark Office
Cases: Petition for *Inter Partes* Review (IPR) of US Patent No. 7,039,435 (owned by Bell Northern Research). IPR case IPR2020-00319 (petitioned by LG Electronics, Inc.)
Technology: Wireless technology including power control of wireless transmissions
Activity: Expert Declaration (in support of IPR Petition).
10. Fish & Richardson for Apple
Dates: 2017-2019
Venue: United States District Court; Southern District of California
Cases: Apple Inc. v. Qualcomm Inc., Civil Action No. 3:17-cv-00108
Technology: LTE wireless technology.
Activity: Expert Report (Patent portfolio technical evaluation). Deposition (Oct. 17, 2018). *Testimony before jury was scheduled for April 22, 2019, but case settled after opening arguments.*

11. Quinn Emanuel Urquhart & Sullivan for Samsung
Dates: 2017-2018
Venue: United States District Court; Northern District of California (San Francisco Division) and United States Patent and Trademark Office
Cases: Samsung Electronics Co., LTD, et al. (counterclaim-plaintiffs) v. Huawei Technologies Co., LTD., et al. (counterclaim-defendants), Case No. 16-cv-02787-WHO
Huawei Technologies Co., LTD vs. Samsung Electronics Co., LTD, Case IPR2017-01974 (US Patent 8,457,588)
Huawei Technologies Co., LTD vs. Samsung Electronics Co., LTD, Case IPR2017-01982 (US Patent 8,228,827)
Technology: LTE wireless technology.
Activity: Declarations (Claim Construction, 2 Patent Owner's Responses to Petition for IPR); Expert Report (Infringement); Rebuttal Report (Validity). Depositions (June 20, 2018, Aug. 10, 2018, Aug. 11, 2018).
12. Baker Botts for AT&T; Gibson, Dunn & Crutcher for T-Mobile
Dates: 2016-2017
Venue: United States District Court; District of Delaware
Cases: (a) Intellectual Ventures I LLC v. AT&T Mobility LLC et al., Civil Action No. 12-CV-193-LPS (D. Del.); Intellectual Ventures I LLC v. AT&T Mobility LLC et al., Civil Action No. 1:15-CV-00799-LPS.
(b) Intellectual Ventures I LLC v. T-Mobile USA Inc. et al. D. Del. Case No. 1:13-cv-1632-LPS.
Technology: HSDPA wireless technology.
Activity: Expert Report; Declaration; Sur-Reply Report. Deposition (Mar. 23, 2017).
13. Rothwell Figg for LG; Paul Hastings for Samsung; Mayer Brown for Motorola Mobility
Dates: 2016
Venue: United States District Court; Southern District of California
Cases: (a) Odyssey Wireless Inc. v. LG Electronics USA, Inc. et al., Civil Action No. 3:15-cv-01746-H-RBB (S.D. Cal.).
(b) Odyssey Wireless Inc. v. Samsung Electronics Co. et al., Civil Action No. 3:15-cv-01738-H-RBB (S.D. Cal.).
(c) Odyssey Wireless Inc. v. Motorola Mobility, Civil Action No. 3:15-cv-01741-H-RBB (S.D. Cal.).
Technology: LTE wireless technology.
Activity: Expert Report (noninfringement). Deposition (Aug. 24, 2016).
14. Sheppard Mullin for Samsung; Gibson Dunn and Wilmer Hale for Intel; Boies Schiller for Apple
Dates: 2016
Case: Various regulatory agencies' investigations of Qualcomm Incorporated ("Qualcomm"), including the Korean Fair Trade Commission (the "KFTC") and the United States Federal Trade Commission (the "FTC").
Technology: LTE wireless technology.
Activity: Declaration (technical analysis of patent portfolio).

15. Boies, Schiller & Flexner for Apple; Sheppard, Mullin, Richter & Hampton for HTC; Kilpatrick Townsend & Stockton for Lenovo and Motorola Mobility; Quinn Emanuel Urquhart & Sullivan for Samsung; McDermott Will & Emery for ZTE; Sidley Austin for Microsoft
Dates: 2016
Venue: United States District Court; District of Delaware
Cases: (a) Evolved Wireless, LCC, v. Apple Inc., Civil Action No. 1:15-cv-00542-SLR.
(b) Evolved Wireless, LCC, v. HTC Corporation and HTC America, Inc., Civil Action No. 1:15-cv-00543-SLR. (c) Evolved Wireless, LCC, v. Lenovo Group Ltd., Lenovo (United States) Inc., and Motorola Mobility, Civil Action No. 1:15-cv-00544-SLR.
(d) Evolved Wireless, LCC v. Samsung Electronics Co., Ltd. and Samsung Electronics America, Inc., Civil Action No. 1:15-cv-00545-SLR. (e) Evolved Wireless, LCC v. ZTE Corporation, ZTE (USA) Inc., and ZTE Solutions Inc., Civil Action No. 1:15-cv-00546-SLR. (f) Evolved Wireless, LCC v. Microsoft Corporation, Microsoft Mobile OY and Nokia Inc., Civil Action No. 1:15-cv-00547-SLR.
Technology: LTE wireless technology.
Activity: Declaration (claim construction).
16. Williams & Connolly
Dates: 2015
Case: Confidential Parties (Leading Global Wireless Communication Companies)
Consolidated Arbitrations Under the International Chamber of Commerce Rules.
Technology: LTE wireless technology.
Activity: Expert Report (patent portfolio technical evaluation).
17. Kirkland & Ellis for Samsung
Dates: 2013
Case: Samsung Electronics and Samsung Telecommunications America v. Ericsson Inc.
In the Matter of Certain Wireless Communications Equipment and Articles Therein
US. International Trade Commission (ITC) Investigation No. 337-TA-866
Technology: LTE wireless technology.
Activity: Expert Report (infringement, domestic industry practice), rebuttal report (validity).
Court testimony (ITC bench trial): direct (Oct. 23, 2013) and rebuttal (Oct. 30, 2013).
18. Quinn Emanuel Urquhart & Sullivan, LLP for Samsung
Dates: 2013
Case: Samsung Electronics GmbH v. Apple Inc.
German Patent Court, Case Number 5 Ni 49/11
Technology: Turbo codes; LTE wireless technology.
Activity: Declaration (validity).
19. Kirkland & Ellis for DIRECTV
Dates: 2009
Case: Rembrandt Data Technologies v. DIRECTV, Inc. et al.
Eastern District of Virginia, Case No. 1:08cv1009
Technology: Telephone modems; set-top boxes.
Activity: Rebuttal Expert Report (non-infringement). Deposition (May 20, 2009).
20. Kirkland & Ellis for Samsung
Dates: 2006
Case: Samsung Electronics and Samsung Telecommunications America v. Ericsson Inc.
In the Matter of Certain Wireless Communications Equipment, Articles Therein, and Products Containing the Same
ITC Investigation No. 377-TA-577
Technology: WCDMA/UMTS wireless technology; mobile phone handsets.
Activity: Declaration (domestic industry practice). Deposition (Nov. 17, 2006).

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