

Expert/Consultant Curriculum Vitae

Professor Zhi Ding

Ph.D. and Fellow of IEEE

Expertise

- Wireless Communication Systems
 - Cellular Wireless (2G, 3G, 4G, 5G)
 - Communication Network Protocols
 - Multi-Antenna Technologies
 - WLAN (WiFi, Bluetooth)
 - xDSL Internet Services
 - DOCSIS Modems
 - Optical Networks
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Professional Summary

- Professor of major US universities for over 30 years.
- *Consulted for multiple major technology companies*
- Worked as expert on multiple patent infringement cases.
- Conducted research works on Communications and Signal Processing for over 30 years.
- Supervised over 27 PhD students.
- Author of more than 200 journal papers and 2 books on communication technologies.

Dr. Zhi Ding has been a professor of electrical engineering at major US universities for 30 years. Since 1995, he has consulted for both engineering companies such as Nortel, Analog Devices, Intel, and worked as expert for major law firms from US, UK, China, and Canada including Kirkland & Ellis, WilmerHale, Quinn Emanuel, Fish & Richardson, Sheppard Mullin, Sidley Austin, Mayer Brown, Venable, and Finnegan, on multiple technical and patent infringement cases. He has been conducting research works on wireless communications and signal processing since 1984. He has supervised over 27 PhD students. He is an author of 200 journal papers and 2 technical books on communication technologies. He has taught classes that cover the fundamentals of signal detection, communications, and systems.

Dr. Ding was appointed as the Child Family Professor of Engineering and Entrepreneurship in 2009-2014. He served as the steering committee chair of the IEEE Transactions on Wireless Communications. He was elevated to Fellow of IEEE in 2002 by the IEEE Signal Processing Society. He also served as the Technical Program Chair of the IEEE Globecom 2006 (the flagship conference of the IEEE Communications Society), Dr. Ding is an eminent scholar and expert of wireless technologies AND signal processing.

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Intellectual Property Dispute Consulting:

Past Client	Past Engagement
Kirkland & Ellis LLP	2007-2015 (more than 10 engagements)
Wilmer Cutler Pickering Hale, and Dorr, LLP	2009-2019 (multiple engagements)
Fish and Richardson, LLP	2014-15, 2019-20 (multiple engagements)
Kaye Scholer LLP	2008-2009
Bridges and Mavrakakis, LLP	2011-2014 (multiple engagements)
Sterne, Kessler, Goldstein & Fox, LLC	2013-19
Bramson, Plutzik, Mahler & Birkhaeuser	2013
Gibson, Dunn & Crutcher, LLP	2014
Quinn Emanuel	2014
Norton Rose Fulbright US LLP	2014
Sheppard, Mullin, Richter, and Hampton, LLP	2015-2020 (multiple engagements)
Rothwell, Figg, Ernest, and Manbeck, P.C.	2016
Mayer Brown LLP	2015-17
Sidley Austin, LLP	2015-19
Irell & Manella, LLP	2016
Finnegan, Henderson, Farabow, Garrett & Dunner, L.L.P	2017
Venable, LLP	2017-18
Pillsbury LLP	2017-19
Alston, Bird, LLP	2018
Gibson, Dunn & Crutcher, LLP	2018-19
Desmaris, LLP	2019

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Allen & Overy, LLP, UK	2019-20
Gowling WLG, Canada	2019
Erise IP	2019-20
Kirkland Ellis	2020

Expert Testifying and Depositions (7 Trials and 10 Depositions)

Clients

Bramson, Plutzik,
Mahler &
Birkhaeuser LLP

Deposition/Testifying Experience

2013: **Deposition** on Case No. CV 12-05240 PJH
Nad Karim v. Hewlett Packard, Co.
UNITED STATES NORTHERN DISTRICT COURT OF
CALIFORNIA. Settlement ordered Jan. 18, 2017.

Fish and Richardson
(Representing
Marvell)

2015 (Feb. & August): **2 Depositions** for Marvell.
US PTAB *Inter Partes* Review IPR2014-00548
Marvell Semiconductor, Inc. v. Intellectual Ventures I LLC

Norton, Rose,
Fulbright, US, LLP

2016 (April): **Deposition** for
US PTAB *Inter Partes* Review IPR2015-10577, IPR2015-
10580, IPR2015-10581, IPR2015-10581.
Qualcomm Inc. v Bandspeed Inc.

Sheppard, Mullin,
Richter, and
Hampton, LLP

2016 (May): **Deposition** for TCL in
TCL Communication Technology Holdings, LTD., et al. v.
Ericsson, et al., Case No. 8:14-cv-341 (C. D. CA).
2017 (Feb): **Testified at C.D. California** bench trial.

Sidley Austin, LLP

2016 (December): **Testified at** trial involving
Huawei Technologies, Co. Ltd v. Samsung
Regarding FRAND licensing disputes in Shenzhen Court, P.R.
China.

2018 (June): **Deposition** for N.D. CA on Huawei Technologies,
Co. Ltd v. Samsung.

2018 (December): **Testified at** trial involving
Huawei Technologies, Co. Ltd v. Samsung
Regarding FRAND licensing disputes in Beijing Court of
Intellectual Properties, P.R. China.

Mayer Brown LLP

2017 (January): **Testified during tribunal proceeding** for
LG Electronics, Inc. in standard essential patent (SEP) licensing

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	dispute of Nokia Technologies, Ltd. v. LG Electronics, Inc. During arbitration hearing in Paris, France.
Venable LLP	2017 (October): Deposition as expert witness for Verizon Services Corp. in Case No. 2:16-CV-588-WCB (E. D. TX) on US Patent disputes.
Pillsbury LLP	2018 (Feb): Deposition (Case No. 5:16-cv-00179-RWS) 2018 (June): Testified at E. D. Texas (Texarkana) jury trial (Case No. 5:16-cv-00179-RWS).
Allen & Overy LLP UK	2019 (Jan): Huawei v. Conversant 2019 (April): Testified at Nanjing Intermediate Court Trial
Sidley Austin LLP, US	2019 (Jan): Huawei v. PanOptis 2019 (Sept.): Testified at Shenzhen Intermediate Court Trial
Sheppard, Mullin, Richter, and Hampton, LLP	2019 (Dec. 3rd): Deposition for HTC and Apple in <i>HTC Corporation, HTC America, Inc., and Apple Inc. v. INVT SPE LLC</i> , Case Nos. IPR2018-01555 and IPR2018-01581.
Sterne, Kessler, Goldstein & Fox, LLC	2020 (Feb.): Deposition for Volkswagen Group of America, In. v. Carucel Investments, L.P. Case Nos. IPR2019-01573 and IPR2019-01101.

Recent IPR Declarations or Outcomes

IPR2014-00548 Expert Declaration to the Patent Trial and Appeal Board, with link to [Final PTAB Decision](#).

[IPR2015-00314 Expert Declaration](#) to the Patent Trial and Appeal Board with link to [Final PTAB Decision](#)

[IPR2015-00315 Expert Declaration](#) and [Supplemental Expert Declaration](#) to the Patent Trial and Appeal Board with link to [PTAB Trial Decision](#).

[IPR2015-00531 Expert Declaration](#) to the Patent Trial and Appeal Board with link to [PTAB Trial Decision](#).

[IPR2015-01580 Expert Declaration](#) to the Patent Trial and Appeal Board with link to [PTAB Trial Decision](#).

[IPR2015-01582 Expert Declaration](#) to the Patent Trial and

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Appeal Board and link to [PTAB Decision on Institution of IPR and Grant of Motion for Joinder with ITR2015-00531](#).

[IPR2016-00620 Expert Declaration](#) to the Patent Trial and Appeal Board with link to [PTAB decision to institute](#) and link to [Final PTAB decision finding all but 2 dependent claims invalid](#).

[IPR2016-00623 Expert Declaration](#) to the Patent Trial and Appeal Board with link to [PTAB decision](#).

IPR2018-01555 Expert Declaration to the Patent Trial and Appeal Board. Instituted.

IPR2018-01581 Expert Declaration to the Patent Trial and Appeal Board.

IPR2019-01573 Expert Declaration to the Patent Trial and Appeal Board.

IPR2019-01101 Expert Declaration to the Patent Trial and Appeal Board.

Employment History

From: 2000 **University of California at Davis**
To: Present Davis, CA
Position: *Professor, Department of Electrical and Computer Engineering*

From: 01/1999 **University of Iowa**
To: 09/2000 Iowa City, IA
Position: *Assoc. Professor, Department of Electrical and Computer Engineering*

From: 01/1997 **Hong Kong University of Science and Technology**
To: 12/1997 Hong Kong
Position: *Visiting Associate Professor, Department of Electrical and Electronic Engineering*

From: 09/1995 **Auburn University**
To: 12/1998 Auburn, AL
Position: *09/1995-12/1998: Associate Professor, Department of Electrical and Computer Engineering*
09/1990-08/1995: Assistant Professor, Department of Electrical and

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