

## Expert/Consultant Curriculum Vitae

### Professor Zhi Ding

Ph.D. and Fellow of IEEE

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#### Expertise

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

- Professor of major US universities for over 32 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 30 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 32 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 30 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 currently holds the position of Distinguished Professor at the University of California, where he was also 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. He received the IEEE Communications Society's 2012 TC Recognition Award and the 2020 Education Award.

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### Intellectual Property Dispute Consulting:

Past Client	Past Engagement
Kirkland & Ellis LLP	2007 (Intel v. WiLAN)
	2008 (Cisco, Motorola, etc., v. R.),
	2008 (Apple v. N.)
	2009 (Cisco v. WiAV)
	2009 (Apple v. P.)
	2009 (Cisco v. M.)
	2010 (Netgear v. R.)
	2011 (Intel v. E.)
	2011 (Cisco v. M.)
	2011 (Cisco, Motorola v. I.)
	2011 (Netgear v. E.)
	2013 (Alcatel Lucent matter)
	2015 (Intel “project Impala”)
	2020 (Xiaomi Global)
	2021 (Samsung v. E.)
Wilmer Cutler Pickering Hale, & Dorr, LLP	2023 (TP v. N. )
	2009 (Apple v. N.)
	2011 (Apple v. S.)
	2013 (Apple v. A.)
	2015 (Apple v. E.)
	2018 (Unified matter)
	2019 (Apple v. O.)
	2023 (Z. v. N.)
Fish and Richardson, LLP	2023 (Apple v. Lionra)
	2014 (Marvell v. I.)
	2018 (NEC v. X.)
	2020 (DISH v. T.)
	2020 (Huawei SEP)
	2020 (Samsung v. E.)
	2021 (LG Electronics, Dell v. N.)
	2021 (Quectel v. P.)
	2021 (Apple v. E.)
	2022 (Apple v. S.)
	2022 (LG Electronics v. C.)
	2023 (Dish v. E.)
	2023 (G Project)
Kaye Scholer LLP	2012 (Timer Warner+Ceres+Atlanta Broadband Finance v. K.)
Bridges and Mavrakakis, LLP	2011(Apple matter)
	2014 (Apple v. C.)

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	2015 (Marvell “IP evaluation matter”)
Sterne, Kessler, Goldstein & Fox, LLC	2014 (Marvell, MediaTek v. B.)
	2019 (Volkswagen v. C.)
	2020 (Apple v. S.)
Bramson, Plutzik, Mahler & Birkhaeuser	2013 (Karim v. H.)
Gibson, Dunn & Crutcher, LLP	2014 (AT&T v. I)
Quinn Emanuel	2014 (Canon v. I.)
	2023 (Z. v. E.)
Norton Rose Fulbright US LLP	2015 (Qualcomm v. B.)
	2018 (Qualcomm v. A.)
	2021 (NXP v. Me.)
	2023 (NXP v MI.)
Sheppard, Mullin, Richter, and Hampton, LLP	2015 (TLC v. E.)
	2017 (ZTE v. H.)
	2018 (HTC v. I.)
	2019 (Motorola v. U.)
	2019 (U-Blox AG v. I.)
	2019 (Continental v. A.)
	2019 (Toyota matter)
	2020 (Oppo v. S.)
	2021 (HTC v. S.)
Duane Morris	2015 (Comcast, Cox, Time Warner, Verizon v. T.)
Rothwell, Figg, Ernest, & Manbeck, P.C.	2016 (LG Electronics v. O.)
Mayer Brown LLP	2016 (LG Electronics v. N.)
Sidley Austin, LLP	2016 (Huawei v. S.)
	2018 (Huawei v. O.)
Irell & Manella, LLP	2016 (Juniper v. M.)
	2021 (NXP v. M.)
Finnegan, Henderson, Farabow, Garrett & Dunner, L.L.P	2017 (LGE v. BLU)
	2017 (Sol IP)
Arnold, Porter, Kaye, and Scholer	2017 (Charter v. S.)
	2021 (Samsung v. X.)
Venable, LLP	2017 (Verizon v. S.)
Pillsbury LLP	2017 (ZTE v. H.)
Alston, Bird, LLP	2018 (ASUSTeK v. H.)
Gibson, Dunn & Crutcher, LLP	2019 (AT&T v. S.)
Allen & Overy, LLP, UK	2019 (Huawei v. Conversant.)
Erise IP	2019 (Apple v. I.)
	2022 (Apple v. L.)
Xiaomi (China)	2020 (Siemens)
Munger Tolles & Olson, LLP (Tesla)	2021 (Tesla v. O.)
	2023 (G. v. U.)
Orrick, Herrington, & Sutcliffe, LLP	2021 (Canon v. W.)
Saikrishna & Associates (India)	2019 (Xiaomi v. Ericsson)

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	2020 (OPPO v. NOKIA)
	2022 (vivo v. Nokia)
Continental	2022 (Continental v. N.)
Kelley Dryer	2022 (Keep Truckin v. F.)
Haynes Boone	2022 (Apple v. T.)
Quinsumbing Torres (Philippines)	2022 (vivo v. N.)
Biro Oktroi Roosseno (Indonesia)	2022 (vivo v. N.)
Paul Hastings	2022 (Samsung v. G.)
Cabello Hall Zinda, PLLC	2023 (K. v. E.)
DLA Piper	2023 (D. & M. v. Ozmo)

### Expert Testifying and Depositions (13 Trials and 18 Depositions)

Clients	Deposition/Testifying Experience
Bramson, Plutzik, Mahler & Birkhaeuser LLP	2013: <b>Deposition</b> 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	2015 (Feb): <b>Deposition</b> for Marvell. US PTAB <i>Inter Partes</i> Review IPR2014-00548 Marvell Semiconductor, Inc. v. Intellectual Ventures I LLC 2015 (August): <b>Deposition</b> for Marvell. US PTAB <i>Inter Partes</i> Review IPR2014-00548 Marvell Semiconductor, Inc. v. Intellectual Ventures I LLC
Norton, Rose, Fulbright, US, LLP	2016 (April): <b>Deposition</b> for Qualcomm. US PTAB <i>Inter Partes</i> Review cases IPR2015-10577, IPR2015-10580, IPR2015-10581 Qualcomm Inc. v Bandspeed Inc.
Sheppard, Mullin, Richter, and Hampton, LLP	2016 (May): <b>Deposition</b> for in <i>TCL Communication Technology Holdings, LTD., et al. v. Ericsson, et al.</i> , Case No. 8:14-cv-341 (C. D. CA). 2017 (Feb): <b>Testified at C.D. California</b> bench trial.
Sidley Austin, LLP	2016 (December): <b>Testified at</b> trial involving Huawei Technologies, Co. Ltd v. Samsung regarding FRAND licensing disputes in Shenzhen Court, P.R. China. 2018 (June): <b>Deposition</b> for N.D. CA on IP matter concerning Huawei Technologies, Co. Ltd v. Samsung. 2018 (December): <b>Testified at</b> 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): <b>Testified during tribunal proceeding</b> for LG Electronics, Inc. in standard essential patent (SEP) licensing dispute of Nokia Technologies, Ltd. v. LG Electronics, Inc. During arbitration hearing in Paris, France.

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Venable LLP	2017 (October): <b>Deposition</b> 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): <b>Deposition</b> (E. D. Texas Case No. 5:16-cv-00179-RWS)
	2018 (June): <b>Testified at E. D. Texas</b> (Texarkana) jury trial (Case No. 5:16-cv-00179-RWS).
Allen & Overy LLP UK	2019 (April) <b>Testified at</b> trial involving Huawei Technologies, Co. Ltd v. Conversant regarding FRAND licensing disputes in Nanjing Intermediate Court, P.R. China.
Sidley Austin LLP, US	2019 (Sept.) <b>Testified at</b> trial involving Huawei Technologies, Co. Ltd v. PanOptics, regarding FRAND licensing disputes in Shenzhen Intermediate Court, P.R. China.
Sheppard, Mullin, Richter, and Hampton, LLP	2019 (Dec. 3rd): <b>Deposition</b> 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.): <b>Deposition</b> for Volkswagen Group of America, In. v. Carucel Investments, L.P. Case Nos. IPR2019-01573 and IPR2019-01101.
Jincheng Tongda & Neal, LLP	2021 (June) <b>Testified at</b> trial involving TCL. v. Ericsson, regarding FRAND licensing disputes in Shenzhen Intermediate Court, P.R. China.
Orrick, Herrington, & Sutcliffe, LLP	2021 (October): <b>Deposition</b> for Canon, Inc, in Canon, v. WSOU Investments, LLC d/b/a/ Brazos Licensing, W.D. Texas, Case No. 6:20-cv-980.
Fish & Richardson, P.C.	2021 (November) 1 <sup>st</sup> <b>Deposition</b> for Petitioner IPR 2021-00560 in Quetel v. Koninklijke Philips N.V.
	2021 (December) 1 <sup>st</sup> <b>Deposition</b> for Petitioner on IPR 2021-00563 Proceeding in Quetel v. Koninklijke Philips N.V.
	2022 (March 31) 2 <sup>nd</sup> <b>Deposition</b> for Petitioner IPR 2021-00560 in Quetel v. Koninklijke Philips N.V. (028) (-)
	2022 (April 1) 2 <sup>nd</sup> <b>Deposition</b> for Petitioner on IPR 2021-00563 Proceeding in Quetel v. Koninklijke Philips N.V. (+)
	2022 (Oct. 28) <b>Deposition</b> for Petitioner on IPR 2022-00339 in Apple v. Ericsson.
	2023 (Nov. 18) <b>Deposition</b> for Petitioner on IPR 2023-00496 Proceeding (Apple).
Jauar Jahja and Partners (Indonesia)	2022 (April 25) <b>Testified at</b> trial involving OPPO v. Nokia regarding one patent disputes at Court in Jakarta, Indonesia. <b>Successful denial of temporary injunction.</b>
	2022 (April 26) <b>Testified at</b> trial involving OPPO v. Nokia regarding another patent dispute at Court in Jakarta, Indonesia. <b>Successful denial of temporary injunction.</b>
Quinsambling & Torres (Philippines)	2022 (September) <b>Testified</b> on site at trial involving vivo v. Nokia regarding patent disputes in Regional Trial Court in Manila, the Philippines.

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