

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 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 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 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 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.

Expert/Consultant Curriculum Vitae

Intellectual Property Dispute Consulting:

| Past Client | Past Engagement |
|---|--|
| Kirkland & Ellis LLP | 2007-2015 (more than 10 engagements) |
| Wilmer Cutler Pickering Hale, and Dorr, LLP | 2009-2020 (multiple engagements) |
| Fish and Richardson, LLP | 2014-15, 2019-21 (multiple engagements including Samsung, Dish, Huawei, Quectel, LG, etc.) |
| Kaye Scholer LLP | 2008-2009 |
| Bridges and Mavrakakis, LLP | 2011-2014 (multiple engagements including Apple) |
| Sterne, Kessler, Goldstein & Fox, LLC | 2013-19 (multiple engagements including Volkswagen) |
| 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 | 2015-2021 (multiple engagements including Toyota, HTC, TCL, Continental) |
| 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 |

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|------------------------------------|---------|
| Gibson, Dunn & Crutcher, LLP | 2018-19 |
| Jincheng Tongda & Neal (China) | 2019-21 |
| Desmaris, LLP | 2019 |
| Allen & Overy, LLP, UK | 2019-20 |
| Gowling WLG, Canada | 2019 |
| Erise IP | 2019-20 |
| Questel (China) | 2020 |
| Munger Tolles & Olson, LLP (Tesla) | 2021 |
| | |
| Saikrishna & Associates (India) | 2021 |

Expert Testifying and Depositions (7 Trials and 10 Depositions)

| Clients | Deposition/Testifying Experience |
|---|--|
| Bramson, Plutzik, Mahler & Birkhaeuser LLP | 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): Deposition for Marvell. US PTAB <i>Inter Partes</i> Review IPR2014-00548 Marvell Semiconductor, Inc. v. Intellectual Ventures I LLC |
| | 2015 (August): Depositions 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): Deposition for Qualcomm. US PTAB <i>Inter Partes</i> Review IPR2015-10577, IPR2015-10580, IPR2015-10581, IPR2015-10581. <i>Qualcomm Inc. v Bandspeed Inc.</i> |
| Sheppard, Mullin, Richter, and Hampton, LLP | 2016 (May): Deposition for TCL in <i>TCL Communication Technology Holdings, LTD., et al. v. Ericsson, et al., Case No. 8:14-cv-341 (C. D. CA).</i> |
| | 2017 (Feb): Testified at C.D. California bench trial. |

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| Sidley Austin, LLP | 2016 (December): Testified at trial involving <i>Huawei Technologies, Co. Ltd v. Samsung</i> Regarding FRAND licensing disputes in Shenzhen Court, P.R. China. |
| | 2018 (June): Deposition for <i>N.D. CA on Huawei Technologies, Co. Ltd v. Samsung</i> . |
| | 2018 (December): Testified at trial involving <i>Huawei Technologies, Co. Ltd v. Samsung</i> regarding FRAND licensing disputes in Beijing Court of Intellectual Properties, P.R. China. |
| Mayer Brown LLP | 2017 (January): Testified during tribunal proceeding for <i>LG Electronics, Inc. in standard essential patent (SEP) licensing dispute of Nokia Technologies, Ltd. v. LG Electronics, Inc.</i> 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 (April) Testified at trial involving <i>Huawei Technologies, Co. Ltd v. Conversant</i> regarding FRAND licensing disputes in Nanjing Intermediate Court, P.R. China. |
| Sidley Austin LLP, US | 2019 (Sept.) Testified at trial involving <i>Huawei Technologies, Co. Ltd v. PanOptics</i> , regarding FRAND licensing disputes in Shenzhen Intermediate Court, P.R. China. |
| Sheppard, Mullin, Richter, and Hampton, LLP | 2019 (Dec. 3rd): Deposition for <i>HTC and Apple in 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 <i>Volkswagen Group of America, In. v. Carucel Investments, L.P.</i> Case Nos. IPR2019-01573 and IPR2019-01101. |
| Jincheng Tongda & Neal, LLP | 2021 (June) Testified at trial involving <i>TCL. v. Ericsoon</i> , regarding FRAND licensing disputes in Shenzhen Intermediate Court, P.R. China. |
| Orrick, Herrington, & Sutcliffe, LLP | 2021 (October): Deposition for <i>Canon, Inc. in Canon, v. WSOU Investments, LLC d/b/a/ Brazos Licensing, W.D. Texas</i> , Case No. 6:20-cv-980. |

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| Fish & Richardson, P.C. | 2021 (November) Deposition for <i>Quectel Wireless SOLutoins Co. Ltd in Quectel v. Koninklijke Philips N.V.</i> |
| | 2021 (December) Deposition for <i>Quectel Wireless SOLutoins Co. Ltd in Quectel v. Koninklijke Philips N.V.</i> |

| Recent IPR Declarations or Outcomes | |
|---|--|
| | <p><u>IPR2014-00548</u> Expert Declaration to the Patent Trial and Appeal Board, with link to <u>Final PTAB Decision</u>.</p> <p><u>IPR2015-00314</u> Expert Declaration to the Patent Trial and Appeal Board with link to <u>Final PTAB Decision</u></p> <p><u>IPR2015-00315</u> Expert Declaration and <u>Supplemental Expert Declaration</u> to the Patent Trial and Appeal Board with link to <u>PTAB Trial Decision</u>.</p> <p><u>IPR2015-00531</u> Expert Declaration to the Patent Trial and Appeal Board with link to <u>PTAB Trial Decision</u>.</p> <p><u>IPR2015-01580</u> Expert Declaration to the Patent Trial and Appeal Board with link to <u>PTAB Trial Decision</u>.</p> <p><u>IPR2015-01582</u> Expert Declaration to the Patent Trial and Appeal Board and link to <u>PTAB Decision on Institution of IPR and Grant of Motion for Joinder with ITR2015-00531</u>.</p> <p><u>IPR2016-00620</u> Expert Declaration to the Patent Trial and Appeal Board with link to <u>PTAB decision to institute</u> and link to <u>Final PTAB decision finding all but 2 dependent claims invalid</u>.</p> <p><u>IPR2016-00623</u> Expert Declaration to the Patent Trial and Appeal Board with link to <u>PTAB decision</u>.</p> <p><u>IPR2018-01555</u> Expert Declaration to the Patent Trial and Appeal Board. Instituted (2019-03-07)</p> <p><u>IPR2018-01581</u> Expert Declaration to the Patent Trial and Appeal Board. Instituted (2019-04-01)</p> <p><u>IPR2019-01573</u> Expert Declaration to the Patent Trial and Appeal Board. Instituted (2020-01-22)</p> |

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