

Tim Arthur Williams, Ph.D.  
Curriculum Vitae

Dr. Williams has 45 years of professional experience in wireless communications, networking and telecom technology. He is an entrepreneur who has participated in the organization and operation of start up companies that brought wireless LAN, software VoIP PBX, and 2-way paging technology to the marketplace. Dr. Williams holds numerous patents in wireless and signal processing technology. He is an experienced litigation support consultant with experience in patent infringement matters. Dr. Williams is also a registered Patent Agent.

- Wireless LAN
- Cellular and PCS Standards
- Cellular Telephone Architecture
- Digital Signal Processing
- Telecommunications Technology
- VoIP Technology
- Computer Networking
- Wireless Networks & Protocols

| Year | University                           | Degree                                                                                     |
|------|--------------------------------------|--------------------------------------------------------------------------------------------|
| 1991 | University of Texas at Austin        | MBA                                                                                        |
| 1985 | University of Texas at Austin        | Ph.D.,<br>Dissertation:<br>“Digital Signal Processing Techniques for Acoustic<br>Log Data” |
| 1982 | University of Texas at Austin        | MSEE,<br>Thesis:<br>“Cepstral Processing of Speech Signals”                                |
| 1976 | Michigan Technological<br>University | BSEE                                                                                       |

Professional Experience

From: 2008  
To: 2010  
Organization: Expressume, Inc / Montage Inc. – Milwaukee, WI  
Title: Board Member  
Summary: This company sells software for human resource recruiting. This company was sold in June 2019.

From: 2008  
To: 2014  
Organization: Faculte, Inc. – San Jose, CA  
Title: Board Member  
Summary: This company provided SaaS (Software as a Service) web video based communication products.

From: 2008  
To: 2010  
Organization: BitRail Networks Inc. – Miami, FL  
Title: Founder, Board Member  
Summary: This company sold computer networking solutions.

From: 2008  
To: Present  
Organization: Calumet Venture Management – Madison, WI  
Title: Member  
Summary: This company provides seed capital and management expertise to small companies.

From: 2006  
To: 2015  
Organization: BEEcube Inc. – Fremont, CA  
Title: Founder, Board Member, Board Advisor  
Summary: This company built high speed processing solutions. This company was sold to National Instruments, Inc. in Feb 2015.

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From: 2006  
To: 2015  
Organization: Topaz Equity, LLC – Danville, CA  
Title: Founder, Board Member  
Summary: This is a private equity investment company. It owned AtomAMPD which develops, markets and sells software based network solutions.

From: 2004  
To: Present  
Organization: DoceoTech Inc. – Danville, CA  
Title: Founder, Chairman  
Summary: This was a training company that provides training for engineers in Wireless, Networking, and Telephony technologies. It is currently owned by Beach Technologies, LLC.

From: 2004  
To: 2006  
Organization: SiBEAM, Inc. – Sunnyvale, CA  
Title: Founder, Chief Executive Officer  
Summary: This is a fabless semiconductor company that develops high-speed wireless networking ICs. This company was sold to Silicon Image, Inc. in Apr 2011.

From: 2001  
To: 2004  
Organization: JetQue, Inc. – Danville, CA  
Title: Founder, Chief Executive Officer  
Summary: This company created messaging solutions for the mobile professional.

From: 1999  
To: 2000  
Organization: Atheros Communications, Palo Alto, CA  
Title: Interim CEO, Advisory Board Member  
Summary: This company builds wireless LAN ICs. Atheros became a public company in May 2004. (ATHR) This company was sold to QCOM in Jan 2011.

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From: 1998  
To: 2000  
Organization: Picazo Communications, Inc. – San Jose, CA  
Title: Chief Technology Officer, Advisory Board Member  
Summary: This company built and sold software PBXs Telephony equipment using VoIP and Circuit Switched Technologies. The company was purchased by Intel.

From: 1996  
To: Present  
Organization: Beach Technologies, LLC – Danville, CA  
Title: Chief Executive Officer  
Summary: This is a consulting company that provides IP services. It owns DoceoTech LLC and Streaming Knowledge LLC, which perform the same services.

From: 1991  
To: 1998  
Organization: Wireless Access, Inc. – Santa Clara, CA  
Title: Co-Founder, Chief Technical Officer, Vice President of Engineering, Vice President of Business Strategy  
Summary: This was a startup company focusing on the Narrow Band PCS equipment market. The company developed the over the air protocols, the subscriber equipment and the ICs to deploy 2-way paging services. The company was sold to Glenarye Electronics.

From: 2014  
To: 2021  
Organization: Through Technology, LLC. – Chicago, IL  
Title: Partner  
Summary: This is a private equity investment company. It owns Through Technology Group, PTE LTD, which is registered in Singapore.

From: 1979  
To: 1991  
Organization: Motorola, Inc. – Austin, TX – Semiconductor Sector

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Title: Sr. Engineer, Member Technical Staff, Sr. MTS  
Summary: Business manager, project leader, and senior technical member of the teams which were responsible for product development of the following systems:

- ADPCM transcoder,
- ISDN U-reference point transceiver,
- CT-2 voice codec and channel modem,
- GSM voice codec and channel modem,
- TDMA voice codec and channel modem
- CDMA voice codec and channel modem, and
- Japanese Digital Cellular voice codec and channel modem.

From: 1976  
To: 1979  
Organization: Motorola Inc. - Chicago, IL - Communications Sector - Digital Voice Privacy Group  
Title: Engineer  
Summary: This group built the first commercial digitally encrypted two-way FM land mobile radio system.

Professional Certifications

- Patent Agent – U.S. Patent and Trademark Office #50,790 (Jan 2002)

Issued Patents

| Patent    | Date | Description                                                                                 |
|-----------|------|---------------------------------------------------------------------------------------------|
| 9,787,471 | 2017 | Data Enciphering or Deciphering using a Hierarchical Assignment System                      |
| 7,904,117 | 2011 | Wireless Communication Device using Adaptive Beamforming                                    |
| 6,781,962 | 2004 | Apparatus and Method for Stored Voice Message Control                                       |
| 6,600,481 | 2003 | Data entry apparatus and method                                                             |
| 6,088,457 | 2000 | Method and apparatus for over the air programming a communication device                    |
| 5,854,595 | 1998 | Communications apparatus and method with a computer interchangeable integrated circuit card |
| 5,557,642 | 1996 | Direct conversion receiver for multiple protocols                                           |

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|           |      |                                                                                                                   |
|-----------|------|-------------------------------------------------------------------------------------------------------------------|
| 5,428,638 | 1995 | Method and apparatus for reducing power consumption in digital communications devices                             |
| 5,345,406 | 1994 | Bandpass sigma delta converter suitable for multiple protocols                                                    |
| 5,101,344 | 1992 | Data processor having split level control store                                                                   |
| 5,001,661 | 1991 | Data processor with combined adaptive LMS and general multiplication functions                                    |
| 4,989,169 | 1991 | Digital tone detector using a ratio of two demodulators of differing frequency                                    |
| 4,972,356 | 1990 | Systolic IIR decimation filter                                                                                    |
| 4,965,762 | 1990 | Mixed size radix recoded multiplier                                                                               |
| 4,947,363 | 1990 | Pipelined processor for implementing the least-mean-squares algorithm                                             |
| 4,876,542 | 1989 | Multiple output oversampling A/D converter with each output containing data and noise                             |
| 4,862,169 | 1989 | Oversampled A/D converter using filtered, cascaded noise shaping modulators                                       |
| 4,843,585 | 1989 | Pipelineable structure for efficient multiplication and accumulation operations                                   |
| 4,843,390 | 1989 | Oversampled A/D converter having digital error correction                                                         |
| 4,796,219 | 1989 | Serial two's complement multiplier                                                                                |
| 4,737,925 | 1988 | Method and apparatus for minimizing a memory table for use with nonlinear monotonic arithmetic functions          |
| 4,734,876 | 1988 | Circuit for selecting one of a plurality of exponential values to a predetermined base to provide a maximum value |
| 4,727,508 | 1988 | Circuit for adding and/or subtracting numbers in logarithmic representation                                       |
| 4,722,067 | 1988 | Method and apparatus for implementing modulo arithmetic calculations                                              |
| 4,682,302 | 1987 | Logarithmic arithmetic logic unit                                                                                 |
| 4,618,946 | 1986 | Dual page memory system having storage elements which are selectively swapped between the pages                   |
| 4,406,010 | 1983 | Receiver for CVSD modulation with integral filtering                                                              |
| 4,398,262 | 1983 | Time multiplexed n-ordered digital filter                                                                         |

|                                                          |
|----------------------------------------------------------|
| <p>Patent Applications and Continuation Applications</p> |
|----------------------------------------------------------|

| Appl. Num.  | Pub. Date | Description                                                     |
|-------------|-----------|-----------------------------------------------------------------|
| 20070037528 | 2007      | Wireless Communication Device using Adaptive Beamforming        |
| 20040252679 | 2004      | Stored Voice message Control Extensions                         |
| 15/711,590  | 2017      | Data Enciphering or Deciphering using a Hierarchical Assignment |

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#### Published Papers

- 6 Sept 2016 Putnam, Jonathan D. and Williams, Tim A., The Smallest Salable Patent-Practicing Unit (SSPPU): Theory and Evidence.  
Available at SSRN: <https://ssrn.com/abstract=2835617>
- 19 Sept 2022 Williams, Tim A, A Study of IPlytics Standard Essential Patent Tool.  
Available at SSRN: <https://ssrn.com/abstract=4223782>

#### Litigation Experience

See attached.

*Dr Tim A Williams Case History*

| Case Type                                         | Firm                            | Case Name                                    | Client                                 | Status   | Deposition | Trial Testimc | Engagement | Venue    | Case Number(s)                            |
|---------------------------------------------------|---------------------------------|----------------------------------------------|----------------------------------------|----------|------------|---------------|------------|----------|-------------------------------------------|
| Patent Infringement wireless LANs                 | Morgan Miller and Blair         | Proxim v. 3Com                               | 3Com.                                  | Complete |            |               | 2001       | D. Del.  | 1:2001-cv-00155; 1:2001-cv-00755          |
| Patent Infringement Networking ICs                | Simpson Thacher & Bartlett LLP  | 3Com Inc. v. D-Link/ Realtek Inc.            | 3Com                                   | Complete |            |               | 2002       | N.D. CA  | 03-cv-02177                               |
| Patent Infringement Wireless LANs                 | Weil Gotshal & Manges           | Agere Systems v. Broadcom Inc.               | Broadcom                               | Complete |            |               | 2003       | E.D. PA  | 03-cv-03138                               |
| Patent Infringement Digital Subscriber Loop (DSL) | Heller Ehrman White & McAuliffe | GlobespanVirata v. Texas Instruments         | Texas Instruments; Stanford University | Complete | Y          | Y             | 2003       | D.N.J.   | 03-cv-02854                               |
| Patent Infringement Cellular Phones               | McKool Smith                    | Ericsson Inc v. Samsung Inc.                 | Ericsson                               | Complete | Y          |               | 2004       | ITC      | 337-TA-577                                |
| Patent Infringement PBX services                  | Howrey                          | Foundry Networks v. Alcatel Inc.             | Foundry Networks                       | Complete |            |               | 2004       | E.D. TX  | 2:04-cv-00040                             |
| Patent Infringement PBX services                  | Howrey                          | Foundry Networks v. Lucent Technologies Inc. | Foundry Networks                       | Complete | Y          |               | 2004       | E.D. TX  | 2:04-cv-00040                             |
| Patent Infringement Wireless ICs                  | Kirkland and Ellis LLP          | Intel Corp. v. Wi-LAN Inc.                   | Intel                                  | Complete |            |               | 2004       | N.D. CA  | 08-cv-04555                               |
| Patent Infringement VoIP Recording                | Fish and Richardson             | STS Networks v. Witness Systems              | Witness Systems                        | Complete | Y          | Y             | 2004       | N.D. Ga. | 04-cv-02111                               |
| Patent Infringement Telephone Systems             | Sidley Austin LLP               | C2 Comm. Tech Inc. v. AT&T Inc.              | AT&T                                   | Complete |            |               | 2006       | E.D. TX  | 2:06-cv-00241                             |
| Patent Infringement Networking ICs                | Simpson Thacher & Bartlett LLP  | Commil USA LLC v. Cisco Systems Inc.         | Cisco                                  | Complete |            |               | 2006       | E.D. TX  | 2:07-cv-341; 2:11-cv-00417; 2:11-cv-00265 |
| Patent Infringement PBX services                  | Fish and Richardson             | Microsoft Inc. v. Alcatel Inc.               | Microsoft                              | Complete |            |               | 2006       | ITC      | 337-TA-598                                |

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|------------------------------------------------------|------------------------------------------------|----------------------------------------------|------------------------------|----------|------------|---------------|------------|---------------------------|---------------------------------------------|
| Patent Infringement and Trade Secret Cellular Phones | Heller Ehrman White & McAuliffe                | Qualcomm Inc v. Broadcom Inc.                | Qualcomm                     | Complete |            |               | 2006       | S.D. CA                   | 06-cv-0660                                  |
| Patent Infringement Telephone Systems                | Jones Day LLP                                  | in re Katz Patents                           | Experian                     | Complete |            |               | 2007       | C.D. CA                   | 07-ml-01816                                 |
| Patent Infringement Telephone Systems                | Howrey                                         | in re Katz Patents                           | General Electric             | Complete | Y          |               | 2007       | C.D. CA                   | 07-ml-01816                                 |
| Patent Infringement Wireless Networks                | Heller Ehrman LLP and Covington & Burling LLP  | Intermec Tech. V. Palm Inc.                  | Palm                         | Complete | Y          |               | 2007       | D. Del.                   | 1:2007-cv-00272                             |
| Patent Infringement Cellular Phones                  | Cooley Godward Kronish LLP                     | Qualcomm Inc. v. Broadcom Inc.               | Qualcomm                     | Complete |            |               | 2007       | S.D. CA                   | 08-cv-01607; 08-cv-01829                    |
| Patent Infringement Cellular Phones                  | DLA Piper                                      | Qualcomm Inc. v. Nokia Inc.                  | Qualcomm                     | Complete |            |               | 2007       | W.D. WI; S.D. CA; S.D. CA | 3:07-cv-00187; 3:07-cv-01366; 3:05-cv-02063 |
| Patent Infringement                                  | Howrey LLP                                     | Minerva Inc. v Motorola Inc. et al.          | Research in Motion           | Complete |            |               | 2007       | E.D. TX                   | 2:2007-cv-00229                             |
| Patent Infringement                                  | Covington & Burling; Cooley; Howrey; DLA Piper | Saxon Innovations LLC. v. Nokia Corp. et al. | Samsung; Nintento; RIM; Palm | Complete |            |               | 2007       | E.D. TX                   | 6:2007-cv-00490                             |
| Patent Infringement                                  | Baker Botts LLP                                | AT&T v Airbiquity                            | AT&T                         | Complete |            |               | 2008       | N.D. TX                   | 08-cv-01637                                 |
| Patent Infringement                                  | Quinn Emanuel LLP                              | ESN v Cisco                                  | Cisco                        | Complete |            |               | 2008       | E.D. TX                   | 5:08-cv-00020                               |
| Patent Infringement Telephone Call Processing        | Jones Day LLP                                  | in re Katz Interactive Call Processing       | Citizens Communications      | Complete | Y          |               | 2008       | C.D. CA                   | 07-ml-01816                                 |

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|--------------------------------------------|---------------------------------------------------------|------------------------------------------------------------|--------------------------------------|----------|------------|---------------|------------|---------|---------------------------------------------|
| Patent Infringement<br>VoIP                | Kilpatrick<br>Stockton<br>LLP                           | Verizon Corp. v. Cox Inc.                                  | Cox                                  | Complete | Y          | Y             | 2008       | E.D. VA | 1:08-cv-00157                               |
| Patent Infringement                        | Latham &<br>Watkins LLP                                 | Freedom Wireless Inc. v. Cricket Communications Inc et al. | Cricket<br>Comm.                     | Complete | Y          |               | 2008       | E.D. TX | 2:06-CV-504                                 |
| Patent Infringement                        | Irell &<br>Manella LLP                                  | eBay Inc. v. IDT Corp. et al.                              | eBay.                                | Complete | Y          |               | 2008       | W.D. AR | 4:08-cv-04015                               |
| Patent Infringement                        | Foley &<br>Lardner LLP                                  | SPH America LLC v. Kyocera Wireless Corp. et al.           | Kyocera.                             | Complete |            |               | 2008       | S.D. CA | 3:08-cv-02146; 3:09-cv-00299; 3:09-cv-00572 |
| Patent Infringement<br>Wireless<br>Devices | Ropes &<br>Grey LLP                                     | Motorola Inc. v. Research in Motion Inc.                   | Motorola                             | Complete |            |               | 2008       | N.D. TX | 3:08-cv-00284                               |
| Patent Infringement                        | Banner &<br>Witcoff                                     | Paradox Ltd. v. ADT Ltd.                                   | Paradox                              | Complete | Y          |               | 2008       | E.D. TX | 2:06-cv-00462                               |
| Patent Infringement                        | Gibson<br>Dunn LLP                                      | Broadcom v Emulex                                          | Emulex                               | Complete |            |               | 2009       | C.D. CA | 09-cv-01058                                 |
| Patent Infringement<br>Wireless ICs        | Keker &<br>Van Nest<br>LLP                              | Intel Corp. v. CSIRO Inc.                                  | Intel                                | Complete | Y          |               | 2009       | E.D. TX | 06-cv-00551                                 |
| Patent Infringement                        | Foley and<br>Lardner LLP                                | SPH v Nokia                                                | Nokia                                | Complete |            |               | 2009       | S.D. CA | 3:2009-cv-02535                             |
| Patent Infringement                        | Fish and<br>Richardson<br>LLP                           | Tekelec v Performance Technologies Inc.                    | Performance<br>Technologies;<br>Inc. | Complete |            |               | 2009       | E.D. NC | 09-cv-00531                                 |
| Patent Infringement                        | McDermott<br>Will &<br>Emery LLP                        | Telecommunications Systems Inc. v Sybase 365 Inc.          | Sybase                               | Complete |            |               | 2009       | E.D. VA | 09-cv-00387                                 |
| Patent Infringement                        | Kecker &<br>Van Nest<br>LLP                             | Kodak v HTC                                                | HTC                                  | Complete |            |               | 2010       | ITC     | 337-TA-831                                  |
| Patent Infringement                        | Howrey LLP                                              | WiAV v Motorola                                            | Motorola                             | Complete | Y          |               | 2010       | E.D. VA | 3:09-cv-00447                               |
| Patent Infringement                        | Quinn<br>Emanuel<br>LLP                                 | WiAV v Sony                                                | Sony                                 | Complete | Y          |               | 2010       | E.D. VA | 3:09-cv-00447                               |
| Patent Infringement                        | Covington<br>LLP                                        | Fujitsu v Belkin et al.                                    | Fujitsu                              | Complete | Y          | Y             | 2011       | N.D. CA | 10-cv-03972-LHK                             |
| Patent Infringement                        | Finnegan<br>Henderson<br>LLP Keker &<br>Van Nest<br>LLP | HTC v Apple Inc.                                           | HTC                                  | Complete | Y          | Y             | 2011       | ITC     | 337-TA-721                                  |

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|------------------------------------------------------|--------------------------------------------------|--------------------------------------------|----------------------------------------------------------|----------|------------|---------------|------------|------------------|-------------------------------------|
| Patent Infringement                                  | Hogan Lovells LLP                                | MOSAID v Cisco Inc.                        | MOSAID                                                   | Complete | Y          |               | 2011       | ITC              | 337-TA-778                          |
| Patent Infringement                                  | Quinn Emanuel LLP                                | Motorola v Apple Inc.                      | Motorola                                                 | Complete | Y          |               | 2011       | S.D. FL; D. Del. | 1:2010-cv-23580<br>1:2010-cv-00867  |
| Patent Infringement                                  | Finnegan Henderson LLP                           | HTC v Apple Inc.                           | HTC                                                      | Complete | Y          |               | 2012       | ITC              | 337-TA-808                          |
| Patent Infringement                                  | Proskauer LLP                                    | MMI v Apple Inc.                           | MMI                                                      | Complete | Y          |               | 2012       | D. Del.          | 1:10-cv-00258                       |
| Patent Infringement                                  | Ropes and Grey LLP                               | Motorola v Microsoft Inc.                  | Motorola                                                 | Complete | Y          | Y             | 2012       | W.D. WA.         | 10-cv-01823                         |
| Patent Infringement                                  | Quinn Emanuel LLP                                | Samsung v Apple Inc.                       | Samsung                                                  | Complete | Y          | Y             | 2012       | N.D. CA          | 11-cv-01846                         |
| Patent Infringement                                  | Fish and Richardson LLP                          | VirnetX v Avaya                            | Avaya                                                    | Complete | Y          |               | 2013       | E.D. TX          | 6:11-cv-00018                       |
| Patent Infringement and Trade Secret Cellular Phones | Heller Ehrman White & McAuliffe                  | Broadcom Inc. v Qualcomm Inc.              | Qualcomm                                                 | Complete | Y          |               | 21-Jan-03  | S.D. CA          | 05-cv-1392                          |
| Patent Infringement                                  | Baker & McKenzie LLP and Kilpatrick Stockton LLP | Data Treasury Corp. v. Wells Fargo. et al. | Wells Fargo and Wachovia.                                | Complete | Y          |               | 6/27/05    | E.D. TX          | 2:2005-cv-00291;<br>2:2005-cv-00293 |
| Patent Infringement                                  | Morrison & Foerster                              | Class v Apple                              | Apple                                                    | Complete |            |               | 9/22/06    | Unknown          | Unknown                             |
| Patent Infringement                                  | Cravath Swaine & Moore                           | Broadcom Inc. v Qualcomm Inc.              | Qualcomm                                                 | Complete |            |               | 10-Jan-07  | C.D. CA          | 05-cv-00467                         |
| Patent Infringement                                  | Cooley Godward Kronish LLP                       | Broadcom Inc. v Qualcomm Inc.              | Qualcomm                                                 | Complete | Y          | Y             | 13-Jan-08  | ITC              | 337-TA-543                          |
| Arbitration                                          | Cooley, Godward, Kronish LLP                     | Qualcomm v Panasonic                       | Qualcomm                                                 | Complete |            |               | 6/24/09    | Arbitration      | None                                |
| Arbitration                                          | Sidley Austin LLP                                | AT&T v. Intrado                            | AT&T Mobility LLC (f/k/a Cingular Wireless LLC) ( AT&T); | Complete | Y          |               | 3-Nov-09   | Arbitration      |                                     |

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| Case Type           | Firm                                                                                                         | Case Name                                                                                            | Client                                                                                               | Status   | Deposition | Trial Testimc | Engagement L | Venue   | Case Number(s)                                                                          |
|---------------------|--------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|----------|------------|---------------|--------------|---------|-----------------------------------------------------------------------------------------|
| Patent Infringement | Nixon Peabody; K&L Gates; Altson and Bird; Greenberg Traurig; Spotts Fain; Winston & Strawn; Goodwin Proctor | SPH America v Acer Inc. et al                                                                        | Sierra Wireless; Novatel; Nokia; Hewlett Packard; UT Starcom; Motorola Solutions; Motorola Mobility. | Complete | Y          |               | 4/14/10      | S.D. CA | 3:2009-cv-02535                                                                         |
| Patent Interference | Foley and Lardner LLP                                                                                        | Application Serial No 10/304,121 and U.S. Patent No. 7,084,529, Patent Interference No. 105,755(RES) | EnOcean GMBH                                                                                         | Complete |            |               | 21-Jul-10    | USPTO   | Application Serial No 10/304,121 and U.S. Patent No. 7,084,529, Patent Interference No. |
| Patent Infringement | Mayer Brown LLP                                                                                              | MOSAID v Cisco                                                                                       | MOSAID                                                                                               | Complete | Y          |               | 9/10/10      | D. Del. | 10-cv-00687                                                                             |
| Patent Infringement | Kilpatrick Townsend LLP                                                                                      | Golden Bridge v Motorola.                                                                            | Motorola                                                                                             | Complete |            |               | 5/20/11      | D. Del. | 1:2010-cv-00428                                                                         |
| Patent Infringement | Quinn Emanuel LLP                                                                                            | Barnes & Noble v LSI                                                                                 | Barnes & Noble                                                                                       | Complete |            |               | 6/14/11      | N.D. CA | 11-cv-02709                                                                             |
| Patent Infringement | Covington LLP; Fish and Richardson LLP; Brinks Hofer Gilson & Lione LLP; Alston & Bird LLP                   | Interdigital v Huawei et al.                                                                         | Huawei; LG; ZTE; Nokia                                                                               | Complete | Y          | Y             | 8/18/11      | ITC     | 337-TA-800                                                                              |
| Patent Infringement | Cravath LLP                                                                                                  | Parkervision v Qualcomm                                                                              | Qualcomm                                                                                             | Complete | Y          | Y             | 11/2/11      | MDFL    | 11-cv-00179                                                                             |
| Patent Infringement | Latham & Watkins LLP                                                                                         | Sprint Communications v Time Warner Cable et al.                                                     | Time Warner Cable                                                                                    | Complete |            |               | 1/30/12      | D. KS   | 2:2011-cv-02686                                                                         |
| Patent Infringement | Kilpatrick Townsend LLP                                                                                      | Digitide v Motorola                                                                                  | Motorola                                                                                             | Complete |            |               | 14-Feb-12    | ITC.    | 337-TA-827                                                                              |

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| Case Type           | Firm                               | Case Name                                                                                                                                                                                                                                                                                                                        | Client                                                                                                       | Status   | Deposition | Trial Testimc | Engagement | Venue            | Case Number(s)    |
|---------------------|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|----------|------------|---------------|------------|------------------|-------------------|
| Patent Infringement | Dechert LLP                        | Intellectual Ventures I LLC and Intellectual Ventures II LLC v. AT&T Mobility LLC; AT&T Mobility II LLC; New Cingular Wireless Services Inc.; SBC Internet Services Inc.; Wayport Inc.; T-Mobile USA Inc.; Nextel Operations Inc.; Sprint Spectrum L.P.; United States Cellular Corporation; and Telephone and Data Systems Inc. | Intellectual Ventures I LLC and Intellectual Ventures II LLC                                                 | Complete | Y          |               | 7/5/12     | D. Del.          | 1:2012-cv-00193   |
| Patent Infringement | McKenna Long & Aldridge LLP        | Comerica v Maxim Integrated Products                                                                                                                                                                                                                                                                                             | Comerica                                                                                                     | Complete |            |               | 8/1/12     | W.D. PA          | 12-mc-00244       |
| Patent Infringement | DLA Piper LLP                      | Technology Properties Limited LLC ("TPL");Phoenix Digital Solutions LLC ("PDS") and Patriot Scientific Corporation ("PTSC") v Samsung Electronics Co. Ltd. And Samsung Electronics America Inc.                                                                                                                                  | Samsung                                                                                                      | Complete |            |               | 11/7/12    | ITC              | 337-TA-853        |
| Patent Infringement | Goodwin Procter LLP                | WIAV Solutions v. ZTE Corporation. et al.                                                                                                                                                                                                                                                                                        | ZTE Corporation and ZTE (USA)                                                                                | Complete |            |               | 17-Dec-12  | E.D. VA          | 1:12CV907         |
| Patent Infringement | Fish and Richardson LLP            | Ericsson v Samsung                                                                                                                                                                                                                                                                                                               | Samsung                                                                                                      | Complete |            |               | 10-Jan-13  | ITC              | 337-TA-862        |
| Patent Infringement | Kirkland & Ellis LLP               | SimpleAir Inc. v. Microsoft Corp. et al.                                                                                                                                                                                                                                                                                         | Samsung Electronics Co.; Ltd.; Samsung Electronics America; Inc.; and Samsung Telecommunications America LLC | Complete |            |               | 19-Mar-13  | E.D. TX          | 2:11-cv-00416-JRG |
| Patent Infringement | Winston & Strawn LLP               | Adaptix v Motorola Mobility LLC et al.                                                                                                                                                                                                                                                                                           | Motorola Mobility                                                                                            | Complete |            |               | 22-Mar-13  | E.D. TX Tyler    | 6:12-cv-00016-MHS |
| Patent Infringement | Winston & Strawn LLP               | Adaptix v Motorola Mobility LLC et al.                                                                                                                                                                                                                                                                                           | Motorola Mobility                                                                                            | Complete |            |               | 22-Mar-13  | N.D. CA          | 5:13-cv-01774-PSG |
| Patent Infringement | Bunsow De Mory Smith & Allison LLP | Cassidian Communications v. microData GIS Inc.; microData LLC; and TeleCommunications Systems Inc.                                                                                                                                                                                                                               | Cassidian Communications                                                                                     | Complete | Y          | Y             | 1-Apr-13   | E.D. TX Marshall | 2:09-cv-00395-JRG |
| Patent Infringement | Kilpatrick Townsend & Stockton LLP | SimpleAir Inc. v. Microsoft Corporation et al.                                                                                                                                                                                                                                                                                   | Google Inc.                                                                                                  | Complete | Y          | Y             | 2-Apr-13   | E.D. TX          | 2:11-cv-00416-JRG |

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| Case Type           | Firm                        | Case Name                                                                                                                              | Client                                                                                                        | Status   | Deposition | Trial Testimc | Engagement | Venue       | Case Number(s)                         |
|---------------------|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|----------|------------|---------------|------------|-------------|----------------------------------------|
| Patent Infringement | Ropes & Gray LLP            | InterDigital Technology Corp.IPR Licensing Inc. and InterDigital Holdings Inc.                                                         | Samsung Electronics Co.; LTD.; Samsung Electronics America; Inc.; and Samsung Telecommunications America; LLC | Complete | Y          |               | 8-Apr-13   | ITC Del.    | 337-TA-868 and Case No. 13-cv-00011    |
| Patent Infringement | Covington & Burling LLP     | InterDigital Technology Corp.IPR Licensing Inc. and InterDigital Holdings Inc.                                                         | Huawei                                                                                                        | Complete | Y          |               | 12-Jun-13  | ITC Del.    | 337-TA-868 and Case No. 13-009 (RGA)). |
| Patent Infringement | Covington & Burling LLP     | InterDigital Technology Corp.IPR Licensing Inc. and InterDigital Holdings Inc.                                                         | Huawei                                                                                                        | Complete |            |               | 12-Jun-13  | Arbitration |                                        |
| Patent Infringement | Brinks Hofer Gilson & Lione | InterDigital Technology Corp.IPR Licensing Inc. and InterDigital Holdings Inc.                                                         | ZTE Corporation and ZTE (USA) Inc.                                                                            | Complete |            |               | 12-Jun-13  | ITC Del.    | 337-TA-868 and Case No. 13-009 (RGA)). |
| Patent Infringement | Alston & Bird LLP           | InterDigital Technology Corp.IPR Licensing Inc. and InterDigital Holdings Inc.                                                         | Nokia Corporation and Nokia Inc                                                                               | Complete |            |               | 20-Jun-13  | ITC Del.    | 337-TA-868 and Case No. 13-010 (RGA)). |
| Patent Infringement | Tensegrity Law Group LLP    | Intellectual Ventures I LLC and Intellectual Ventures II LLC v Canon Inc. Canon U.S.A. Inc. and Canon Solutions America Inc.           | Intellectual Ventures I LLC and Intellectual Ventures II LLC                                                  | Complete | Y          |               | 12-Jul-13  | Del.        | 1:13-CV-00473-SLR (D. Del.)            |
| Patent Infringement | Tensegrity Law Group LLP    | Intellectual Ventures I LLC and Intellectual Ventures II LLC v Ricoh Company Ltd. Ricoh Americas Corporation and Ricoh Electronics Inc | Intellectual Ventures I LLC and Intellectual Ventures II LLC                                                  | Complete |            |               | 12-Jul-13  | Del.        | 1:13-CV-00474-SLR (D. Del.)            |
| Patent Infringement | OMelveny & Myers LLP        | Commonwealth Scientific and Industrial Research Organisation v. MediaTek Inc. et al.                                                   | Samsung Electronics Co.; Ltd.; Samsung Semiconductor Inc.; and Samsung Telecommunications America; LLC        | Complete |            |               | 19-Jul-13  | E.D. TX     | 6:12-cv-578-LED                        |

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| Case Type           | Firm                                            | Case Name                                                                                                                                                                            | Client                                                          | Status   | Deposition | Trial Testimc | Engagement | Venue                                                                        | Case Number(s)      |
|---------------------|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|----------|------------|---------------|------------|------------------------------------------------------------------------------|---------------------|
| Patent Infringement | Feinberg Day Alberti & Thompson LLP             | Intellectual Ventures v PNC Bank, Capital One, First National Bank of Omaha, JP Morgan Chase, Fifth Third Bank, Bank of America, BBVA Compass Bank, Commerce Bank, Suntrust, and M&T | Intellectual Ventures                                           | Complete | Y          |               | 30-Aug-13  | E.D. VA                                                                      | 1:13-cv-740-AJT/TRJ |
| Patent Infringement | Feinberg Day Alberti & Thompson LLP             | Intellectual Ventures v PNC Bank, Capital One, First National Bank of Omaha, JP Morgan Chase, Fifth Third Bank, Bank of America, BBVA Compass Bank, Commerce Bank, Suntrust, and M&T | Intellectual Ventures                                           | Complete |            |               | 30-Aug-13  | W.D. PA                                                                      | 2: 13-cv-00740-AJS  |
| Patent Infringement | Gibson Dunn                                     | AIP Acquisition LLC v. Cablevision Systems Corporation, et al.                                                                                                                       | CSC Holdings LLC                                                | Complete |            |               | 3-Sep-13   | D. Del.                                                                      | 1:12-cv-01688-GMS)  |
| Patent Infringement | Cooley LLP                                      | Monec Holding AG v. Motorola Mobility LLC, et al.,                                                                                                                                   | Exedeia, Inc                                                    | Complete |            |               | 27-Sep-13  | CA                                                                           | 11-798-LPS-SRF      |
| Patent Infringement | Cooley LLP                                      | Monec Holding AG v. Motorola Mobility LLC, et al.,                                                                                                                                   | HTC Corporation                                                 | Complete | Y          |               | 27-Sep-13  | CA                                                                           | 11-798-LPS-SRF      |
| Patent Infringement | Kilpatrick Townsend & Stockton                  | Monec Holding AG v. Motorola Mobility LLC, et al.,                                                                                                                                   | Motorola Mobility LLC                                           | Complete | Y          |               | 27-Sep-13  | CA                                                                           | 11-798-LPS-SRF      |
| Patent Infringement | Fish & Richardson P.C.                          | Monec Holding AG v. Motorola Mobility LLC, et al.,                                                                                                                                   | Samsung Electronics America, Inc. and Samsung Electronics, Inc. | Complete | Y          |               | 27-Sep-13  | CA                                                                           | 11-798-LPS-SRF      |
| Arbitration         | Covington & Burling LLP                         | Sasken Communication Technologies Limited v. Spreadtrum Communications, Inc. and Spreadtrum Communications USA Inc                                                                   | Spreadtrum                                                      | Complete | Y          | Y             | 30-Sep-13  | American Arbitration Association International Centre for Dispute Resolution | 50-117-T-00924-12   |
| Patent Infringement | FINNEGAN, HENDERSON, LLP and HOLLAND & HART LLP | Cellport v. ZTE et al.                                                                                                                                                               | HTC Corp., et al                                                | Complete |            |               | 27-Oct-13  | CO                                                                           | 1:13-cv-173 - RBJ   |
| Patent Infringement | Dickstein Shapiro LLP, Lathrop & Gage, LLP      | Cellport v. ZTE et al.                                                                                                                                                               | LG Electronics, Inc., et al                                     | Complete |            |               | 27-Oct-13  | CO                                                                           | 1:13-cv-175 - RBJ   |

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| Case Type           | Firm                                    | Case Name                                                                              | Client                                                       | Status   | Deposition | Trial Testimc | Engagement | Venue   | Case Number(s)                                               |
|---------------------|-----------------------------------------|----------------------------------------------------------------------------------------|--------------------------------------------------------------|----------|------------|---------------|------------|---------|--------------------------------------------------------------|
| Patent Infringement | FOX ROTHSCHILD LLP, KING & SPALDING LLP | Cellport v. ZTE et al.                                                                 | Nokia Corp., et al.                                          | Complete |            |               | 27-Oct-13  | CO      | 1:13-cv-178 - RBJ                                            |
| Patent Infringement | McKENZIE LLP                            | Cellport v. ZTE et al.                                                                 | Pantech Co. Ltd., et al                                      | Complete |            |               | 27-Oct-13  | CO      | 1:13-cv-179 - RBJ                                            |
| Patent Infringement | GREENBERG TRAURIG, LLP                  | Cellport v. ZTE et al.                                                                 | Samsung Electronics Co., Ltd., et al                         | Complete |            |               | 27-Oct-13  | CO      | 1:13-cv-180 - RBJ                                            |
| Patent Infringement | Sheppard Mullin Richter &               | Cellport v. ZTE et al.                                                                 | ZTE Corporation and ZTE                                      | Complete |            |               | 27-Oct-13  | CO      | 1:12-cv-3296                                                 |
| Patent Infringement | Ropes & Gray LLP                        | Broadcom Corp. v. NXP Semiconductors USA, Inc.                                         | Broadcom                                                     | Complete |            |               | 11-Feb-14  | CDCA    | CV SA 8:13-829-MRP(MANx)                                     |
| Patent Infringement | Quinn Emanuel LLP                       | GENBAND US LLC v. Metaswitch Networks Ltd., et. al.                                    | Metaswitch Networks Ltd.                                     | Complete | Y          | Y             | 27-Feb-14  | E.D. TX | 2:14-CV-33-JRG-RSP                                           |
| Patent Infringement | O'Melveny & Myers LLP                   | Concinnitas, LLC and George Hindman v. Samsung Telecommunications America, LLC, et al, | Electronics America, Inc. and Samsung                        | Complete |            |               | 22-Apr-14  | E.D. TX | 2: 13-CV-824-JRG-RSP                                         |
| IPR                 | Hill, Kertscher & Wharton,              | Regarding the U.S. Patent No. 8,400,926 B2                                             | HTC Corporation                                              | Complete |            |               | 9-May-14   | USPTO   | U.S. Patent No. 8,400,926 B2                                 |
| IPR                 | Hill, Kertscher & Wharton, LLP          | Regarding the U.S. Patent No. 8,134,600, 8,477,197, 8581,991                           | HTC Corporation                                              | Complete |            |               | 9-May-14   | USPTO   | U.S. Patent No. 8,134,600, 8,477,197, 8581,991               |
| IPR                 | Morgan, Lewis & Bockius LLP             | Regarding the U.S. Patent No. 6,819,923                                                | NEC Casio Mobile Communications Ltd. and NEC Corp of America | Complete |            |               | 25-Jun-14  | USPTO   | U.S. Patent No. 6,819,923                                    |
| IPR                 | Everett Upshaw, PLLC                    | Regarding the U.S. Patent No. 7,215,962                                                | ZTE Corporation and ZTE (USA)                                | Complete | Y          |               | 25-Jun-14  | USPTO   | U.S. Patent No. 7,215,962                                    |
| Patent Infringement | Fenwick & West LLP                      | Cellular Communications Equipment LLC v. Amazon.com, Inc. et al                        | Amazon Inc.                                                  | Complete |            |               | 1-Jul-14   | E.D. TX | TXED-6-13-cv-00569; consolidated with Case No. 6-13-cv-00507 |
| Patent Infringement | Winthrop Shaw Pittman                   | Cellular Communications Equipment LLC v. HTC Corporation et al                         | HTC Corporation                                              | Complete |            |               | 1-Jul-14   | E.D. TX | 6:13-cv-00507                                                |

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| Case Type           | Firm                                                   | Case Name                                                                          | Client                                                                             | Status   | Deposition | Trial Testimc | Engagement | Venue      | Case Number(s)                                     |
|---------------------|--------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|----------|------------|---------------|------------|------------|----------------------------------------------------|
| IPR                 | H.C. Park & Associates, PLC                            | Regarding the U.S. Patent No. 7,218,923                                            | Pantech Co. Ltd., et al                                                            | Complete |            |               | 2-Jul-14   | USPTO      | U.S. Patent No. 7,218,923                          |
| Patent Infringement | Pillsbury Winthrop Shaw Pittman                        | SPH America LLC v. ZTE Corp et. al.                                                | ZTE Corporation and ZTE (USA) Inc.                                                 | Complete |            |               | 10-Jul-14  | ED TX      | 3:13-cv-02326                                      |
| Patent Infringement | Pillsbury Winthrop Shaw Pittman                        | Novatel Wireless, Inc. v. ZTE Corp. et. al.                                        | ZTE Corporation and ZTE (USA) Inc.                                                 | Complete |            |               | 16-Jul-14  | ED TX      | 3:12-cv-02576                                      |
| Patent Analysis     | Qualcomm                                               | Analysis of Qualcomm portfolio                                                     | Qualcomm                                                                           | Complete |            |               | 6-Aug-14   | Consulting | Analysis of Qualcomm portfolio                     |
| IPR                 | Pillsbury Winthrop Shaw Pittman                        | Regarding Vringo patents                                                           | ZTE Corporation and ZTE (USA) Inc.                                                 | Complete |            |               | 21-Aug-14  | USPTO      | U.S. Patents                                       |
| Patent Infringement | Finnegan, Henderson, Farabow, Garrett & Dunner, L.L.P. | OpenTV Inc. et. al. v. Apple, Inc.                                                 | OpenTV, Inc. and Nagravision, SA of the Kudelski Group                             | Complete |            |               | 22-Sep-14  | N.D. CA    | 14-cv-01622-JST                                    |
| IPR                 | Foley and Lardner LLP                                  | Regarding the U.S. Patent No. 8,532,231, 8,565,346                                 | Huawei Technologies Co., Ltd., Futurewei Technologies, Inc. and Huawei Device USA, | Complete |            |               | 14-Oct-14  | USPTO      | Regarding the U.S. Patent No. 8,532,231, 8,565,346 |
| Patent Infringement | Desmarais LLP                                          | Intellectual Ventures I LLC and Intellectual Ventures 11 LLC v. Nikon Corp., et al | Intellectual Ventures I LLC and Intellectual Ventures II LLC                       | Complete |            |               | 11-Nov-14  | Del.       | 1:11-CV-1025-SLR                                   |
| Patent Infringement | Cooley LLP                                             | ParkerVision, Inc. v Qualcomm Incorporated, et al                                  | Qualcomm                                                                           | Complete |            |               | 15-Dec-14  | MDFL       | 6:14-cv-00687                                      |
| Patent Infringement | DLA Piper LLP                                          | Technology Properties Ltd LLC et al. v. Samsung Electronics Co., Ltd               | Samsung Electronics Co., Ltd.                                                      | Complete |            |               | 22-Jan-15  | N.D. CA    | 3:12-cv-03879                                      |
| Patent Analysis     | Cravath, Swaine & Moore LLP                            | Patent Investigation                                                               | Qualcomm                                                                           | Complete |            |               | 6-Mar-15   |            |                                                    |
| Patent Infringement | Paul Hastings                                          | Summit 6 LLC v. HTC Corp.                                                          | HTC Corp and HTC America                                                           | Complete |            |               | 3-Apr-15   | NDTX       | 7:14-cv-00014                                      |

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| Case Type           | Firm                                   | Case Name                                                                  | Client                                                       | Status   | Deposition | Trial Testimc | Engagement L | Venue       | Case Number(s)               |
|---------------------|----------------------------------------|----------------------------------------------------------------------------|--------------------------------------------------------------|----------|------------|---------------|--------------|-------------|------------------------------|
| Patent Infringement | Kolpatrick Townsend & Stockton LLP     | Summit 6 LLC v. Motorola                                                   | Google/Motorola                                              | Complete |            |               | 8-Apr-15     | NDTX        | 7:14-cv-00014                |
| Patent Infringement | Quinn Emanuel LLP                      | Cellular Communications Equipment LLC v. Samsung Electronics Co. Ltd et al | Samsung Electronics Co., Ltd.,                               | Complete |            |               | 8-Jun-15     | E.D. TX     | 6:14-cv-759-JRG              |
| IPR                 | Sterne, Kessler, Goldstein & Fox PLLC  | Int'l Bus. Machines Corp. v IV                                             | IV                                                           | Complete | Y          |               | 10-Jun-15    | USPTO       | 2015-00089, 2015-00092       |
| Patent Infringement | Novak, Druce Connolly Bove + Quigg LLP | Sonus Networks, Inc. v Inventergy, Inc. and Inventergy Global, Inc         | Inventergy, Inc. and Inventergy Global, Inc                  | Complete |            |               | 24-Jul-15    | N.D. CA     | 15-cv-00322                  |
| Patent Infringement | Novak, Druce Connolly Bove + Quigg LLP | Sonus Networks, Inc. v Inventergy, Inc. and Inventergy Global, Inc         | Inventergy, Inc. and Inventergy Global, Inc                  | Complete |            |               | 24-Jul-15    | MA          | 15-cv-10207                  |
| Patent Infringement | Novak, Druce Connolly Bove + Quigg LLP | Sonus Networks, Inc. v Inventergy, Inc. and Inventergy Global, Inc         | Inventergy, Inc. and Inventergy Global, Inc                  | Complete |            |               | 24-Jul-15    | E.D. TX     | 14-cv612                     |
| Arbitration         | Mayer Brown LLP                        | Nokia Technologies Ltd and LG Electronics, Inc.                            | LG Electronics, Inc.                                         | Complete | Y          |               | 25-Sep-15    | Arbitration | None                         |
| IPR                 | Sterne, Kessler, Goldstein & Fox PLLC  | LM Ericsson v IV                                                           | Intellectual Ventures I LLC and Intellectual Ventures II LLC | Complete | Y          |               | 18-Dec-15    | USPTO       | 2015-01872                   |
| IPR                 | Sterne, Kessler, Goldstein & Fox PLLC  | Old Republic Group Inc. v IV                                               | Intellectual Ventures I LLC and Intellectual Ventures II LLC | Complete | Y          |               | 18-Dec-15    | USPTO       | IPR2015-01992, CBM2015-00184 |
| IPR                 | Sterne, Kessler, Goldstein & Fox PLLC  | LM Ericsson v IV                                                           | Intellectual Ventures I LLC and Intellectual Ventures II LLC | Complete | Y          |               | 26-Dec-15    | USPTO       | 2015-01873                   |

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| Case Type           | Firm                                | Case Name                                                                                        | Client                                                              | Status   | Deposition | Trial Testimony | Engagement | Venue   | Case Number(s)                                 |
|---------------------|-------------------------------------|--------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|----------|------------|-----------------|------------|---------|------------------------------------------------|
| Patent Infringement | Cooley LLP                          | ParkerVision, Inc. v Qualcomm Incorporated, et al                                                | Qualcomm                                                            | Complete |            |                 | 1-Feb-16   | ITC     | 337-TA-982                                     |
| Patent Analysis     | Norton Rose Fulbright US LLP        | Patent Investigation                                                                             | Qualcomm                                                            | Complete |            |                 | 22-Feb-16  |         |                                                |
| Patent Infringement | Fish & Richardson P.C.              | TiVo Inc. v. Samsung Electronics Co., Ltd., et al.,                                              | Samsung Electronics Co., Ltd. and Samsung Electronics America, Inc. | Complete |            |                 | 14-Mar-16  | EDTX    | 2:15-CV-1503                                   |
| Patent Infringement | RuyakCherian LLC                    | Brocade Communications Systems, Inc.                                                             | Communications Systems, Inc.                                        | Complete |            |                 | 4-May-16   | None    | None                                           |
| IPR                 | Bragalone Conroy PC                 | Securus Technologies, Inc. v. Global Tel*Link Corporation                                        | Securus Technologies, Inc.                                          | Complete | Y          |                 | 6-May-16   | USPTO   | IPR2016-01123                                  |
| Patent Infringement | Cooley LLP                          | Skky, LLC v. Facebook, Inc. et al.                                                               | Facebook, Inc.                                                      | Complete |            |                 | 7-Jun-16   | ?       | 16-cv-00094-WMW-FLN                            |
| IPR                 | Winthrop Shaw Pittman               | Cellular Communications Equipment LLC v. AT&T et al                                              | HTC Corporation, HTC America                                        | Complete | Y          |                 | 7-Jul-16   | USPTO   | Regarding U.S. Patents 8,457,676 and 8,570,957 |
| IPR                 | Pillsbury Winthrop Shaw Pittman     | Cellular Communications Equipment LLC v. AT&T et al                                              | ZTE Corporation and ZTE (USA), Inc.                                 | Complete |            |                 | 7-Jul-16   | USPTO   | Regarding U.S. Patents 8,457,676 and 8,570,957 |
| Patent Infringement | Desmarais LLP                       | Uniloc USA, Inc. and Uniloc Luxembourg S.A. v. Cisco Systems, Inc.                               | Cisco Systems, Inc.                                                 | Complete |            |                 | 15-Jul-16  | E.D. TX | 6:15-CV-1175-JRG                               |
| Patent Infringement | Quinn Emanuel LLP                   | GENBAND US LLC v. Metaswitch Networks Ltd., et. al.                                              | Metaswitch Networks Ltd.                                            | Complete | Y          |                 | 15-Jul-16  | E.D. TX | 2:16-cv-582-JRG-RSP                            |
| Patent Infringement | Duanne Morris                       | Ruckus Wireless, Inc. v Chiramar Systems d/b/a CMS Technologies and Chiramar Holding Company LLC | Ruckus Wireless                                                     | Complete |            |                 | 27-Jul-16  |         |                                                |
| Patent Infringement | Singularity IP & Foster Pepper PLLC | CommScope Technologies LLC v. Dali Wireless, Inc.,                                               | CommScope Technologies LLC                                          | Complete |            |                 | 17-Aug-16  | N.D. Tx | 3:16-cv-00477                                  |

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| Case Type           | Firm                                                   | Case Name                                                                                                                                                          | Client                                                              | Status   | Deposition | Trial Testimc | Engagement | Venue   | Case Number(s)    |
|---------------------|--------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|----------|------------|---------------|------------|---------|-------------------|
| Patent Infringement | Quinn Emanuel LLP                                      | Huawei Technologies, Co. Ltd et al v. Samsung Electronics Co, Ltd. et al                                                                                           | Samsung Electronics Co., Ltd. and Samsung Electronics America, Inc. | Complete | Y          |               | 23-Aug-16  | NDCA    | 3:16-cv-02787     |
| Patent Infringement | Foster Pepper PLLC                                     | CommScope Technologies LLC v. Dali Wireless, Inc.,                                                                                                                 | CommScope Technologies LLC                                          | Complete |            |               | 15-Oct-16  | N.D. Tx | 3:16-cv-00477     |
| Technology Review   | Foster Pepper PLLC                                     | Dali Wireless, Inc.                                                                                                                                                | Dali Wireless, Inc.                                                 | Complete |            |               | 28-Oct-16  | None    | None              |
| Patent Analysis     | Foster Pepper PLLC                                     | Dali Wireless, Inc v. Fiplex Communications, Inc.                                                                                                                  | Dali Wireless, Inc                                                  | Complete |            |               | 29-Oct-16  |         |                   |
| Patent Infringement | Finnegan, Henderson, Farabow, Garrett & Dunner, L.L.P. | Certain Digital Cable and Satellite Products, Set-Top Boxes, Gateways, and Components Thereof                                                                      | Sony Corporation                                                    | Complete |            |               | 8-Dec-16   | ITC     | 337-TA-1049       |
| Patent Infringement | Irell & Manella, LLP                                   | various patent disputes involving Mobile Telecommunications Technology, LLC ("MTel") and regarding United States Patents Nos. 5,590,403, 5,659,891, and 5,915,210. | Juniper Networks, Inc.                                              | Complete |            |               | 29-Dec-16  |         |                   |
| Patent Infringement | Dechert, LLP, Winston & Strawn                         | Tech Pharmacy Services, LLC v. Alixa RX LLC., et al.                                                                                                               | Alixa RX LLC                                                        | Complete | Y          |               | 6-Jan-17   | EDTX    | 4:15-cv-766       |
| Patent Infringement | Sheppard Mullin Richter & Hampton LLP                  | Papst Licensing GMBH & Co. KG v. ZTE Corporation and ZTE (USA), Inc.                                                                                               | ZTE (USA), Inc.                                                     | Complete | Y          |               | 27-Jan-17  | EDTX    | 6: 15-cv-1100     |
| Antitrust           | Freitas Angell & Weinberg LLP                          | Intellectual VenturesI LLC v Capital One                                                                                                                           | Intellectual Ventures                                               | Complete |            |               | 15-Feb-17  | MD      | 8:14-cv-111 (PWG) |
| IPR                 | Knobbe, Martens, Olson, & Bear LLP                     | Symantec Corporation ("Symantec") v. IV's U.S. Patent No. 7,757,298                                                                                                | IV                                                                  | Complete |            |               | 16-Feb-17  | USPTO   | 2016-01433        |
| Patent Infringement | Cooley LLP                                             | Uniloc USA, Inc. et al. v. Facebook, Inc. et al.                                                                                                                   | Facebook, Inc.                                                      | Complete |            |               | 17-Feb-17  | EDTX    | 2:16-cv-00728     |

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| Case Type           | Firm                                                   | Case Name                                                                                                                | Client                   | Status   | Deposition | Trial Testimc | Engagement | Venue                 | Case Number(s)                          |
|---------------------|--------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|--------------------------|----------|------------|---------------|------------|-----------------------|-----------------------------------------|
| Patent Infringement | Feinberg Day Alberti & Thompson LLP                    | OpenTV Inc. v. NFL Enterprises, LLC                                                                                      | OpenTV, Inc.             | Complete |            |               | 23-Mar-17  | EDTX                  | 6:17-cv-00031                           |
| IPR                 | Finnegan, Henderson, Farabow, Garrett & Dunner, L.L.P. | Unified Patents (6,014,089, 7,346,313)                                                                                   | Unified Patents          | Complete |            |               | 4/8/17     | USPTO                 | (6,014,089, 7,346,313)                  |
| Patent Infringement | Irell & Manella, LLP                                   | Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V. v. Sirius XM Radio, Inc.,                           | Fraunhofer               | Complete |            |               | 17-May-17  |                       | 17-184-VAC-SRE                          |
| Technology Review   | RuyakCherian LLC                                       | XR Communications, LLC, dba Vivato Technologies v. Ruckus Wireless, Inc.                                                 | Ruckus Wireless          | Complete |            |               | 13-Jun-17  | CDCA                  | 2:17-cv-02961                           |
| Patent Infringement | DLA Piper LLP                                          | Mobile Telecommunications Technologies, LLC v. Aruba Networks, Inc., et al.,                                             | Aruba/HPE and HP         | Complete |            |               | 25-Aug-17  | MD                    | 16-md-2722                              |
| Patent Infringement | Dechert, LLP                                           | Intellectual Ventures I LLC v. T-Mobile USA, Inc., T-Mobile US, Inc., Ericsson Inc., and Telefonaktiebolaget LM Ericsson | IV                       | Complete | Y          | Y             | 29-Aug-17  | EDTX                  | 2:17-cv-00577-JRG                       |
| Patent Infringement | Cooley LLP                                             | Silver State Intellectual Tech., Inc. v. Facebook, Inc. et al.                                                           | Facebook, Inc.           | Complete |            |               | 19-Sep-17  | ND CA                 | 4:17-cv-03349-JSW                       |
| Patent Infringement | Quinn Emanuel LLP                                      | QCOM v Apple SD Cal                                                                                                      | Qualcomm                 | Complete | Y          |               | 15-Nov-17  | SD. Cal,              | 5:17-cv-0108-GPC-MDD,                   |
| Patent Infringement | Norton Rose                                            | QCOM v Apple                                                                                                             | Qualcomm                 | Complete | Y          |               | 15-Nov-17  | ND Cal                | 5:17-md-02773-LHK,                      |
| Patent Infringement | Norton Rose                                            | QCOM v Apple                                                                                                             | Qualcomm                 | Complete | Y          |               | 15-Nov-17  | ND Cal                | 5:17-cv-00220-LHK                       |
| Patent Infringement | Quinn Emanuel LLP                                      | In the Matter of CERTAIN MOBILE ELECTRONIC DEVICES AND RADIO FREQUENCY                                                   | Qualcomm                 | Complete | Y          |               | 10-Jan-18  | ITC                   | U.S. PATENT NO. 9,608,675               |
| Patent Infringement | Paul Hastings                                          | 3G Licensing, S.A. et al v. HTC Corporation                                                                              | HTC Corporation          | Complete |            |               | 7-Mar-18   | Del.                  | 1:17-cv-00083-LPS-CJB                   |
| Patent Infringement | Fish & Richardson P.C.                                 | Sonus Networks, Inc. v. Metaswitch Networks Ltd. et al,                                                                  | Metaswitch Networks Ltd. | Complete |            |               | 19-Jun-18  | EDTX Marshall         | I 8-cv-00057-RWS, I 8-cv-00058-RWS, IPR |
| Request for Reexam  | Dentons US LLP                                         | Request for Reexam re: patent 7,814,216                                                                                  | Dentons                  | Complete |            |               | 6-Sep-18   | USPTO                 | US Patent 7,814,216                     |
| Contract Dispute    | Jones Day                                              | Qualcomm, Inc. v. Apple, Inc.                                                                                            | Qualcomm                 | Complete | Y          |               | 28-Sep-18  | San Diego Superior Ct | 37-2017-00041389-CU-BC-NC               |
| Patent Infringement | O'Melveny & Myers LLP                                  | Top Victory Electronics (Taiwan) Co. Ltd. v. American Patents LLC                                                        | Top Victory Electronics  | Complete |            |               | 13-Dec-18  | EDTX                  | 4:18-cv-00768-ALM                       |

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| Case Type             | Firm                                                   | Case Name                                                                                                                                                | Client               | Status   | Deposition | Trial Testimony | Engagement | Venue                | Case Number(s)                                                                      |
|-----------------------|--------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|----------|------------|-----------------|------------|----------------------|-------------------------------------------------------------------------------------|
| Patent Infringement   | Birch, Stewart, Kolasch & Birch, LLP                   | Blitzsafe Texas LLC v Mitsubishi Electric Corp, et al.                                                                                                   | Mitsubishi           | Complete |            |                 | 19-Feb-19  | EDTX                 | 2:17-cv-00430-JRG                                                                   |
| IPR                   | Jones Day                                              | Qualcomm/Intel PTAB Matters (U.S. Patent No. 9,608,675 )                                                                                                 | Qualcomm             | Complete | Y          |                 | 20-Feb-19  | USPTO                | IPR2018-01326 to 01330 and IPR2018-01340                                            |
| Patent Infringement   | Finnegan, Henderson, Farabow, Garrett & Dunner, L.L.P. | Uniloc Luxembourg S.A., Uniloc 2017 LLC ("Uniloc") v LG Electronics Inc., LG Electronics U.S.A., Inc., and LG Electronics MobileComm U.S.A., Inc. ("LG") | LG                   | Complete |            |                 | 11-Mar-19  | NDCA                 | 3:18-cv-06737-JST, 5:18-cv-06738-LHK, 3:18-cv-06739-JST, 3:18-cv-06740-JST) and PTO |
| Ex Parte              | Finnegan, Henderson, Farabow, Garrett & Dunner, L.L.P. | TCL Communication Technology Holdings Ltd. ("TCL")                                                                                                       | TCL                  | Complete |            |                 | 13-Mar-19  | USPTO                | U.S. Patent No. 7,149,510                                                           |
| Patent Infringement   | Mayer Brown LLP                                        | Maxell, Ltd., et al., v. Apple Inc.                                                                                                                      | Maxell               | Complete | Y          |                 | 15-Apr-19  | EDTX                 | 5:19-cv-00036-RWS                                                                   |
| Patent Infringement   | Maschoff Brennan                                       | ICON Health & Fitness, Inc. v. Tme Fitness Technology, Inc                                                                                               | ICON                 | Complete |            |                 | 29-May-19  | Missouri             | 4:18-cv-00439                                                                       |
| Patent Infringement   | Gibson Dunn                                            | Sprint Communications Co. L.P. v. Cequel Communications, UC et al.                                                                                       | Altice USA           | Complete | Y          |                 | 17-Jun-19  | Del.                 | 1:18-cv-01752-RGA                                                                   |
| Patent Infringement   | Charhon Callahan Robson & Garza, PLLC                  | United Access Technologies, LLC ("UAT") in connection with UAT's lawsuits against AT&T, Verizon, Frontier and CenturyTel,                                | UAT                  | Complete | Y          |                 | 17-Jun-19  |                      | 1:05-cv-00866-LPS, 1:11-cv-00338-LPS, 1:11-cv-00341-LPS                             |
| Patent Infringement   | Susman Godfrey I.L.P.                                  | Sol IP, LLC v. AT&T Mobility LLC, et al.                                                                                                                 | Sol IP               | Complete | Y          |                 | 24-Jul-19  | E.D. Tex.            | 2:18-cv-00526; 2:18-cv-00527; 2:18-cv-00528                                         |
| IPR                   | Kelley Drye & Warren LLP                               | Zomm / Apple PTAB Matters (U.S. Patent No. 9,608,675 )                                                                                                   | Zomm, LLC            | Complete | Y          |                 | 30-Jul-19  | USPTO                | IPR2019-275, IPR2019-277, IPR2019-1030                                              |
| Patent Infringement   | Fish & Richardson P.C.                                 | Bell Northern Research, LLC v. LG Electronics Inc., et al.,                                                                                              | LG Electronics, Inc. | Complete |            |                 | 6-Aug-19   | SD. Cal              | 18-cv-2864-CAB-BLM                                                                  |
| Technology Consulting | Rose Fulbright US LLP                                  | Sanyo v. Intel                                                                                                                                           | Sanyo                | Complete | Y          |                 | 3-Dec-19   | Chancery of Delaware | C.A. No. 2018-0723-MTZ                                                              |
| Patent Infringement   | Sidley Austin LLP                                      | LG Electronics Inc. v. Hisense Electronics Manufacturing Company of America                                                                              | LG                   | Complete |            |                 | 15-Jan-20  | CDCA                 | 2:19-cv-09474-SJO-E                                                                 |

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| Case Type           | Firm                                         | Case Name                                                                | Client                                     | Status   | Deposition | Trial Testimc | Engagement | Venue        | Case Number(s)                                                                                                                                                                                                                                                        |
|---------------------|----------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------|----------|------------|---------------|------------|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Patent Infringement | Ahmad, Zavitsanos, Anaipakos, Alavi, Mensing | Cellular Evolution, LLC v. AT&T Mobility, LLC and Cricket Wireless, LLC  | Cellular Evolution                         | Complete |            |               | 30-Jan-20  | EDTX         | 19-cv-00228                                                                                                                                                                                                                                                           |
| Patent Infringement | Ahmad, Zavitsanos, Anaipakos, Alavi, Mensing | Cellular Evolution, LLC v. T-Mobile, US, Inc. and T-Mobile USA, Inc.,    | Cellular Evolution                         | Complete |            |               | 30-Jan-20  | EDTX         | 19-cv-00232                                                                                                                                                                                                                                                           |
| Patent Infringement | Cooley LLP                                   | ParkerVision v. Apple                                                    | Qualcomm                                   | Complete |            |               | 11-Feb-20  | MDFL         | 3:15-cv-01477                                                                                                                                                                                                                                                         |
| Patent Infringement | Cooley LLP                                   | ParkerVision v. Qualcomm                                                 | Qualcomm                                   | Complete | Y          |               | 11-Feb-20  | MDFL         | 6:14-cv-00687                                                                                                                                                                                                                                                         |
| IPR                 | Wolf Greenfield LLP                          | MediaTek v NTT                                                           | MediaTek                                   | Complete | Y          |               | 2-Jul-20   | USPTO        | Re U.S. Patent Nos. 7,280,551 and 7,400,616                                                                                                                                                                                                                           |
| Patent Infringement | Mintz, Levin                                 | Parus Holdings, Inc.                                                     | Parus Holdings                             | Complete |            |               | 31-Aug-20  | WDTX         | Not specified                                                                                                                                                                                                                                                         |
| Patent Infringement | Venable LLP                                  | Blitzsafe Texas LLC v. Fiat Chrysler Automobiles N.V., FCA US LLC et al. | Maserati North America Inc. and FCA US LLC | Complete | Y          |               | 8-Sep-20   | EDTX         | 2:19-cv-00378-JRG                                                                                                                                                                                                                                                     |
| IPR                 | Wolf Greenfield LLP                          | Bose Corporation v. KOSS Corporation                                     | Bose                                       | Complete | Y          |               | 20-Oct-20  | USPTO        | U.S. Patent No. 10,368,155                                                                                                                                                                                                                                            |
| Patent Infringement | Shearman & Sterling LLP                      | StratosAudio, Inc. v. Volkswagen Group of America, Inc                   | Volkswagen                                 | Complete | Y          |               | 13-Jan-21  | WDTX         | 6:20-cv-1131                                                                                                                                                                                                                                                          |
| Patent Infringement | Fish & Richardson P.C.                       | Ericsson Inc v. Samsung Electronics Co.                                  | Samsung                                    | Complete |            |               | 11-Mar-21  | ITC and EDTX | 337-TA-1248 and No. 2:20-cv-380 (E.D. Tex.),                                                                                                                                                                                                                          |
| Patent Infringement | Dechert, LLP                                 | IPCom v AT&T Inc, Verizon, Sprint                                        | IPCom                                      | Settled  | Y          |               | 17-Mar-21  | EDTX         | PCom Gmbh & Co. KG v. AT&T Inc. et al., Case No. 2:20-cv-00322 (E.D. Tex.); IPCom Gmbh & Co. KG v. Verizon Communications Inc. et al., Case No. 2:20-cv-00323 (E.D. Tex.); and IPCom Gmbh & Co. KG v. Sprint Spectrum L.P. et al., Case No. 2:20-cv-00321 (E.D. Tex.) |

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| Case Type           | Firm                       | Case Name                                                                                  | Client          | Status   | Deposition | Trial Testimc | Engagement | Venue | Case Number(s)                                                                                   |
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| Patent Infringement | Sidley Austin LLP          | WSOU v. Hewlett Packard                                                                    | Hewlett Packard | Settled  |            |               | 4-Jun-21   | WDTX  | U.S. Patent Nos. 7,280,534; 7,386,630; 7,443,832; 7,519,056; 7,646,729; 8,462,774; and 9,398,629 |
| Patent Infringement | Desmarais LLP              | Cellspin Soft, Inc. v. Google Fitbit, Inc.                                                 | Google / Fitbit | Complete |            |               | 1-Jun-21   | NDCA  | 4:17-cv-05928-YGR                                                                                |
| Patent Infringement | Fish & Richardson P.C.     | Cellspin Soft, Inc. v. Fossil, Inc.                                                        | Fossil          | Complete |            |               | 18-Aug-21  | NDCA  | 4:17-cv-05933-YGR                                                                                |
| Patent Infringement | DLA Piper LLP              | Cellspin Soft, Inc. v. Nike Inc                                                            | Nike            | Complete |            |               | 28-Jul-21  | NDCA  | 4:17-cv-05931-YGR                                                                                |
| Patent Infringement | Harness Dickey             | Cellspin Soft, Inc. v. Under Armour, Inc.                                                  | Under Armor     | Complete |            |               | 4-Aug-21   | NDCA  | 4:17-cv-05932-YGR                                                                                |
| Patent Infringement | Lamkin IP                  | Cellspin Soft, Inc. v. Garmin, Inc.                                                        | Garmin          | Complete |            |               | 6-Aug-21   | NDCA  | 4:17-cv-05934-YGR                                                                                |
| Patent Infringement | Morrison & Foerster        | Cellspin Soft, Inc. v. Nikon, Inc.                                                         | Nikon           | Complete |            |               | 23-Aug-21  | NDCA  | 4:17-cv-05936-YGR                                                                                |
| Patent Infringement | Fish & Richardson P.C.     | Smart Mobile Technologies, LLC v. Samsung Electronics                                      | Samsung         | ongoing  |            |               | 1-Oct-21   | CDTX  | 6:21-cv-00701-ADA                                                                                |
| Patent Infringement | Ruyak Cherian LLP          | Bright Data Ltd. v. NetNut Ltd.                                                            | Bright Data     | Complete | Y          |               | 7-Oct-21   | EDTX  | 2:21-cv-00225-JRGRSP                                                                             |
| Patent Infringement | Quinn Emanuel LLP          | Verkada, Inc. v. Motorola Solutions Inc.                                                   | Verkada         | Complete | Y          | Y             | 25-Oct-21  | ITC   | Inv. No. 337-TA-1281                                                                             |
| Patent Infringement | Mayer Brown LLP            | Maxell, Ltd., v. Lenovo Group Ltd., Lenovo (United States) Inc., and Motorola Mobility LLC | Maxell          | Complete |            |               | 9-Nov-21   | WDTX  | 6:21-cv-01169                                                                                    |
| Patent Infringement | Mayer Brown LLP            | Maxell, Ltd., v. Lenovo Group Ltd., Lenovo (United States) Inc., and Motorola Mobility LLC | Maxell          | Complete |            |               | 9-Nov-21   | ITC   | Inv. No. 337-TA-1324                                                                             |
| Patent Review       |                            | Collision Communications                                                                   | Collision       | Complete |            |               | 1-Feb-22   |       |                                                                                                  |
| Patent Infringement | Kasowitz Benson Torres LLP | IV v GM                                                                                    | IV              | Complete |            |               | 18-Feb-22  | WDTX  | 6:21-cv-01088-ADA                                                                                |
| Patent Infringement | Kasowitz Benson Torres LLP | IV v Toyota                                                                                | IV              | Complete |            |               | 18-Feb-22  | WDTX  | 2:21-CV-00389-JRG-RSP                                                                            |
| Patent Infringement | Kasowitz Benson Torres LLP | IV v Honda                                                                                 | IV              | Complete |            |               | 18-Feb-22  | WDTX  | 2:21-CV-03090-JRG-RSP                                                                            |
| Patent Infringement | LTL Attorneys LLP          | Howlink Global LLC v. Verizon Comm'ns, et al.                                              | Howlink         | Complete |            |               | 21-Mar-22  | EDTX  | 22-cv-00040                                                                                      |

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| Case Type           | Firm                                  | Case Name                                                     | Client                    | Status   | Deposition | Trial Testimc | Engagement | Venue | Case Number(s)                                                            |
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| Patent Infringement | LTL Attorneys LLP                     | Howlink Global LLC v. AT&T, Inc., et al.                      | Howlink                   | Complete |            |               | 21-Mar-22  | EDTX  | 22-cv-00042                                                               |
| Patent Infringement | Heim Payne Chorush LLP                | Telecom Network Solutions v. AT&T                             | Telecom Network Solutions | Complete |            |               | 20-Apr-22  | EDTX  | 2:21-cv-00415-JRG,                                                        |
| Patent Infringement | Heim Payne Chorush LLP                | Telecom Network Solutions v. Verizon,                         | Telecom Network Solutions | Complete |            |               | 20-Apr-22  | EDTX  | 2:21-cv-00416-JRG,                                                        |
| Patent Infringement | Heim Payne Chorush LLP                | Telecom Network Solutions v. T-Mobile                         | Telecom Network Solutions | Complete |            |               | 20-Apr-22  | EDTX  | 2:21-cv-00418-JRG,                                                        |
| Patent Infringement | Baker Botts LLP                       | LG Electronics Inc. v. TCL Electronics Holdings Ltd. et al.,  | LG Electronics, Inc.      | Complete |            |               | 17-May-22  | EDTX  | 2:22-cv-00122                                                             |
| Patent Infringement | Ruyak Cherian LLP                     | Bright Data Ltd. Various IPRs                                 | Bright Data               | Ongoing  | Y          |               | 1-Jun-22   | USPTO | IPR 2022-00861, IPR 2022-00862                                            |
| Patent Infringement | K&L Gates LLP                         | Competitive Access Systems, Inc. v. Oracle Corporation        | CAS                       | Complete |            |               | 23-Sep-22  | EDTX  | 2:22-cv-00287                                                             |
| Patent Infringement | Jones Day                             | BJ's Wholesale Club Holdings, Inc. v. Walmart Apollo, LLC     | Walmart                   | Complete |            |               | 11-Nov-22  | USPTO | IPR2022-01471, IPR2022-01528, IPR2022-01561, IPR2022-01563, IPR2022-01564 |
| Patent Infringement | Ruyak Cherian LLP                     | Metacluster LT, UAB v. Bright Data Ltd.                       | Bright Data               | Ongoing  | Y          |               | 1-Feb-23   | EDTX  | 2:22-cv-11-JRG-RSP                                                        |
| Patent Infringement | Sterne, Kessler, Goldstein & Fox PLLC | Roku, Inc. v Dolby International AB                           | Roku                      | Complete |            |               | 8-Feb-23   | USPTO | IPR - '757 Patent                                                         |
| Patent Infringement | Baker Botts, LLP                      | AGIS Software Development, LLC v Samsung Electronics Co, Ltd. | Samsung                   | Ongoing  |            |               | 16-May-23  | EDTX  | 2:22-cv-00263-JRG-ADA                                                     |
| Patent Infringement | BartlitBeck LLP                       | General Access Solutions Ltd. V. Verizon, et. al.             | GAS                       | Complete |            |               | 7-Feb-23   | USPTO | IPR                                                                       |
| Patent Infringement | Susman Godfrey LLP                    | Koninklijke KPN N.V. v Ericsson                               | KPN                       | Complete |            |               | 7-Mar-23   | EDTX  | 2:22-cv-282                                                               |
| Patent Infringement | Mintz, Levin                          | Mullen Industries v Apple Inc.                                | Mullen                    | Complete |            |               | 3-May-23   | USPTO | IPR                                                                       |
| Patent Infringement | Fish & Richardson P.C.                | Entropic Communications, LLC v DISH Network Corp.             | DISH                      | Ongoing  |            |               | 30-Jun-23  | USPTO | IPR                                                                       |
| Patent Infringement | Jones Day                             | The Talisman Group, LLC. v Light and Wonder (LNU Gaming, Inc) | LNU                       | Ongoing  |            |               | 14-Apr-23  | USPTO | IPR                                                                       |

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|------------------------|--------------------------|-------------------------------------------------------------------------|-------------|---------|------------|---------------|--------------|--------------|---------------------------|
| Patent<br>Infringement | Russ<br>August<br>&Kabat | Headwater Research LLC                                                  | Headwater   | Ongoing |            |               | 8-Sep-23     |              |                           |
| Patent<br>Infringement | Russ<br>August<br>&Kabat | Cobblestone Wireless, LLC v. T-Mobile USA, Inc.,                        | Cobblestone | Ongoing |            |               | 1-Dec-23     | EDTX         | 2:22-cv-477               |
| Patent<br>Infringement | Russ<br>August<br>&Kabat | Cobblestone Wireless, LLC v. Cellco Partnership d/b/a Verizon Wireless, | Cobblestone | Ongoing |            |               | 1-Dec-23     | EDTX         | 2:23-cv-382               |
| Patent<br>Infringement | Anand &<br>Anand         | LG Electronics Inc. versus Vivo Mobile India Private Limited & Ors.     | LG          | Ongoing |            |               | 12-Dec-23    | Delhi High C | CS. (Comm) 665 of<br>2023 |