

Joshua Goshorn

Senior Director

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Quandary Peak Research

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I am a computer engineer and expert witness with more than two decades of experience supporting intellectual property, and technology-related litigation involving complex software systems. My work spans embedded systems, wireless communications, multimedia, cloud software, medical devices, and computer vision, drawing on decades of hands-on engineering and software architecture experience to provide technically rigorous analyses, source code reviews, and expert opinions.

Expert Highlights

- 100+ litigation engagements
- 15 expert reports
- 7 expert declarations
- 9 depositions
- Testified before the U.S. International Trade Commission
- 25+ years of computer engineering experience
- Millions of lines of source code reviewed and analyzed

Education

C.Phil. Electrical and Computer Engineering

University of California, San Diego | 2009

- **Ph.D. Candidate:** Communications Theory and Systems

M.S. Electrical and Computer Engineering

University of California, San Diego | 2005

- **Areas of Study:** Communications Networks, Digital Signal Processing, Communication Theory

B.S. Electrical and Computer Engineering

University of California, San Diego | 2000

- **Areas of Study:** Embedded systems, Signal Processing, Communications Systems

Areas of Expertise

Software Litigation & Intellectual Property

- Technical consulting for patent, copyright, trade secret, and technology-related litigation.
- Source code analysis for infringement, non-infringement, copyright, and trade secret matters involving complex software and hardware systems.
- Analysis of millions of lines of source code spanning mobile operating systems, modem chipsets, graphics processors, cloud platforms, databases, digital televisions, set-top boxes, and enterprise software.
- Patent portfolio analysis, prior art investigations, and technical due diligence supporting intellectual property strategy and acquisitions.
- Preparation of expert reports, declarations, source code analyses, technical opinions, and claim construction materials.
- Experience providing expert testimony through reports, declarations, depositions, and proceedings before the U.S. International Trade Commission (ITC).
- Technical due diligence supporting mergers and acquisitions, including assessment of independent product development.

Communications & Networking Systems

- Wired and wireless communications systems, including MAC and PHY layer development.
- Quality of Service (QoS), admission control, routing algorithms, and packet networking.
- Wireless standards and technologies including IEEE 802.11 (a/b/g/n), UMTS/WCDMA, HSDPA, HSUPA, HSPA+, LTE, 5G, CDMA2000, and satellite communications.
- Digital communications, including information theory, digital modulation, error correction coding (Reed-Solomon, Trellis-Coded Modulation, LDPC, concatenated coding), OFDM, DSSS, and CDMA.
- Internet protocols and networking technologies, including TCP/IP, UDP, RTP, and network security concepts.

Embedded Software & Systems Engineering

- Embedded software development spanning hardware interfaces through enterprise software and database applications.
- Real-time software systems for communications and digital signal processing applications.
- Multi-threaded and multi-process software, network programming, and inter-process communication.
- Programming languages including C, C++, Java, assembly language, scripting languages, and MATLAB.
- Development targeting DSPs, FPGAs, ARM processors, application-specific SoCs, multi-core processors, and hardware accelerators.
- Embedded operating systems including Linux, VxWorks, real-time operating systems (RTOS), Android, and iOS.
- Hardware design and analysis using VHDL and Verilog.

Multimedia, Signal Processing & Digital Media

- Digital video, image processing, compression, and streaming technologies.
- Video codecs and standards including MPEG-2 and H.264, with experience in MPEG-2 Transport Stream, DVB, ATSC, IPTV, satellite television, video-on-demand, RTSP, and conditional access systems.
- Audio processing, compression, VoIP systems, and telecommunications protocols including SIP, H.323, SS7, and R2MF.
- Digital signal processing including adaptive filtering, FIR and IIR filter design, sample-rate conversion, multi-rate signal processing, and echo cancellation.

Professional Experience

Quandary Peak Research

Senior Director | Hayward, CA | July 2026–Present

- Serve as a testifying and consulting expert witness in intellectual property, trade secret, and technology-related litigation involving complex software systems. Responsibilities include technical investigations, source code analysis, expert reports, declarations, depositions, and trial testimony.

JLG Technologies, Inc.

President/Co-founder | Jan 2000–June 2026

- Technology consulting in complex software, hardware, communications and signal processing systems.
- Perform engineering consulting for start-up technology companies as well as for fast-moving core R&D groups of larger tech companies.
- Consulting clients in various sectors including telecommunications, software, defense and consumer electronics.
- Additional consulting includes due-diligence for investors and technical consulting for intellectual property litigation.

Testifying Engagements

Provided expert report and/or deposition or trial testimony

- **Thomas Majchrowski & Associates v. Rev.com** | Oct 2025–May 2026
Jurisdiction: U.S. District Court for the Western District of Texas, Austin Division
Case Number: 1:25-cv-486
Counsel: Brooks Kushman P.C.
Expert Scope: Testifying expert. Prepared an expert declaration supporting claim construction.
Technology: Digital media streaming systems; media players.
- **Etana Custody Limited v. Kenvor Cothey, et al.** | Feb 2025–Aug 2025
Jurisdiction: U.S. District Court for the District of Colorado
Case Number: 1:24-cv-01707-PAB-SBP
Expert Scope: Testifying expert. Prepared an expert report based on source code analysis.
Technology: Source code analysis.
- **10X Genomics, Inc. and President and Fellows of Harvard College v. Vizgen, Inc.** | Sept 2023–Jan 2025
Jurisdiction: U.S. District Court for the District of Delaware
Case Number: 22-595-MFK
Counsel: White & Case LLP
Expert Scope: Consulting expert. Analyzed source code implementing genetic sequence decoding algorithms and prepared an expert report.
Technology: Genomic sequencing; genetic sequence decoding; bioinformatics software.
- **Dynapass IP Holdings LLC v. JPMorgan Chase & Co., et al.** | Nov 2023–Jan 2025
Jurisdiction: U.S. District Court for the Eastern District of Texas, Marshall Division
Case Number: 2:22-cv-00212-JRG-RSP
Counsel: Jones Day LLP
Expert Scope: Testifying expert. Analyzed server- and client-side source code related to authentication and security procedures, prepared a rebuttal non-infringement expert report, and testified at deposition.
Technology: Authentication systems; distributed network security; client-server software.

- **SoftSmile, Inc. v. Institut Straumann AG, et al.** | Nov 2023–Jan 2025
Case Number: 273775/PDP
Counsel: McDermott Will & Emery LLP
Expert Scope: Testifying expert. Analysis of server-side & client-side source code and prepared an expert report regarding the independent development of software.
Technology: Distributed network security; client-server software.
- **Impinj, Inc. v. NXP USA, Inc., et al.** | Feb 2023–Apr 2023
Jurisdiction: U.S. District Court for the Western District of Texas, Waco Division
Case Number: 6:21-cv-00530-ADA
Counsel: Jones Day LLP
Expert Scope: Testifying expert. Analyzed RFID tag controller and reader implementations, evaluated source code supporting RFID communications protocols and signal processing, and prepared expert reports.
Technology: RFID communications; RFID tag controllers; RFID readers; signal processing; embedded systems.
- **Impinj, Inc. v. NXP USA, Inc., et al.** | Nov 2022–Apr 2023
Jurisdiction: U.S. District Court for the Western District of Washington at Seattle
Case Number: 2:20-cv-01503-JHC
Counsel: Jones Day LLP
Expert Scope: Testifying expert. Analyzed RFID tag controller and reader implementations, evaluated source code supporting RFID communications protocols and signal processing, and prepared expert reports.
Technology: RFID communications; RFID tag controllers; RFID readers; signal processing; embedded systems.
- **Deborah M. Manchester, PhD v. Sivantos GMBH, Sivantos Inc.** | Mar 2019–Aug 2019
Jurisdiction: U.S. District Court for the Central District of California
Case Number: 2:17-cv-05309-ODW (JEMx)
Counsel: Alston & Bird LLP
Expert Scope: Testifying expert. Analyzed source code for a mobile hearing aid configuration application and cloud-based backend system, prepared two expert reports and one declaration, testified at deposition, and was scheduled to testify at trial before the matter settled.
Technology: Mobile healthcare applications; hearing aid configuration; cloud software.
- **State of Oklahoma vs. Purdue Pharma L.P., et al.** | June 2019
Jurisdiction: U.S. District Court of Cleveland County, State of Oklahoma
Case Number: CJ-2017-816
Counsel: O'Melveny & Myers LLP
Expert Scope: Prepared an expert declaration regarding the operation of a hosted website, including its web server and database architecture.
Technology: Web applications; web servers; databases; hosted systems.
- **Nevro Corp. v. Boston Scientific Corp.** | Apr 2017–July 2018
Jurisdiction: U.S. District Court for the Northern District of California
Case Number: 3:16-cv-06830-VC-MEJ
Counsel: Morrison & Foerster LLP
Expert Scope: Testifying expert. Analyzed software for implantable medical devices, prepared an infringement expert report, and testified at deposition.
Technology: Implantable medical devices; embedded software; medical device software.

- **Synaptics Incorporated v. Goodix Technology Inc.** | June 2015–Mar 2016
 Jurisdiction: International Trade Commission (ITC)
 Investigation Number: 337-TA-957
 Counsel: Perkins Coie LLP
 Expert Scope: Testifying expert. Analyzed embedded touchscreen controller technologies with spread spectrum communications, prepared an invalidity expert report, and testified at deposition and before the U.S. International Trade Commission.
 Technology: Touchscreen controllers; embedded systems; spread spectrum communications.
- **Finjan, Inc. v. Proofpoint, Inc.** | Oct 2015–Feb 2016
 Jurisdiction: U.S. District Court for the Northern District of California
 Case Number: 3:13-cv-05808-HSG
 Counsel: Quinn Emanuel Urquhart & Sullivan LLP
 Expert Scope: Consulting expert. Analyzed source code for distributed malware detection systems.
 Technology: Malware detection; cybersecurity; distributed systems.
- **Palmchip Corporation v. Ralink Corporation, Mediatek Inc. et. al.** | June 2014–Aug 2015
 Jurisdiction: Superior Court of the State of California for the County of Santa Clara
 Case Number: JAMS 1110017146
 Counsel: Quinn Emanuel, LLP
 Expert Scope: Analyzed hardware design (Verilog) source code to evaluate independent development and identify potential source code copying using third-party analysis tools.
 Technology: Verilog; hardware design; intellectual property.
- **U.S. Ethernet Innovations, LLC v. Acer, Inc., Hewlett Packard Company, et. al.** | Apr 2014–Sept 2014
 Jurisdiction: U.S. District Court, Northern District of California, Oakland Division
 Case Number: 4:10-cv-03724-CW; Case No. 4:10-cv-05254-CW
 Counsel: K&L Gates LLP
 Expert Scope: Testifying expert. Analyzed network interface technologies and host processor interactions, and prepared a non-infringement expert report.
 Technology: Network interface devices; host processors; networking.
- **Phaedrus Internet Development, Inc., v. Kaiser Foundation Health Plan, Inc., et. al.** | June 2013–May 2014
 Jurisdiction: Superior Court of the State of California, County of Alameda, Hayward Division
 Case Number: RG-10494574
 Counsel: Morrison & Foerster LLP
 Expert Scope: Testifying expert. Prepared and submitted a declaration in a trade secret matter involving distributed image management and processing software.
 Nature of Suit: Trade secrets
 Technology: Image management; image processing; distributed software.
- **Immersion Corporation v. HTC Corporation** | Jan 2014
 Jurisdiction: U.S. District Court for the District of Delaware
 Case Number: 12-259-RGA
 Counsel: Perkins Coie LLP
 Expert Scope: Testifying expert. Prepared and submitted a declaration regarding Android source code implementing haptic feedback functionality.
 Technology: Android; haptic feedback; mobile devices.

- **Immersion Corporation v. HTC Corporation** | Nov 2012–Mar 2013
Jurisdiction: International Trade Commission (ITC)
Investigation Number: 337-TA-834
Counsel: Perkins Coie LLP
Expert Scope: Testifying expert. Prepared a validity expert report and testified at deposition in a matter involving haptic feedback technologies for mobile devices before the ITC.
Technology: Haptic feedback; mobile devices; embedded systems.
- **Hitachi Consumer Electronics v. Top Victory Electronics, Vizio, Inc.** | Aug 2012–Mar 2013
Jurisdiction: U.S District Court for the Eastern District of Texas, Marshall Division
Case Number: 2:10-CV-260-JRG
Counsel: O'Melveny & Myers LLP
Expert Scope: Testifying expert. Analyzed digital television system-on-chip (SoC) source code and technical documentation, and testified at deposition.
Technology: Digital televisions; system-on-chip (SoC); embedded software; multimedia systems.

Litigation Consulting

- **Netflix, Inc. v. Broadcom, Inc. and VMware LLC** | June 2025–Present
Counsel: Baker Botts LLP
Expert Scope: Consulting expert. Analyzed virtual machine source code and operating system functionality.
Technology: Virtual machines; operating systems.
- **Optimum Imaging Technologies LLC v. Nikon Corporation** | Nov 2024–Apr 2025
Counsel: Jones Day LLP
Expert Scope: Consulting expert. Analyzed digital camera source code for image processing algorithms.
Technology: Digital cameras; image processing; image correction algorithms.
- **Cellwitch Inc. v. Tile, Inc.** | July 2024–Jan 2025
Counsel: Morgan Lewis & Bockius LLP
Expert Scope: Consulting expert. Analyzed server-side and embedded source code supporting wireless geo-tagging technologies.
Technology: Geo-tagging; wireless communications; embedded software.
- **Ericsson, Inc. v. Lenovo Group Ltd.** | Mar 2024–Sept 2024
Counsel: Alston & Bird LLP
Expert Scope: Consulting expert. Analyzed third-party hardware video codec implementations.
Technology: Video compression; hardware video codecs.
- **InterDigital, Inc. v. Lenovo Group Ltd.** | Jan 2024–May 2024
Counsel: Alston & Bird LLP
Expert Scope: Consulting expert. Analyzed third-party hardware video codec implementations.
Technology: Video compression; hardware video codecs.
- **NEC Corporation v. Becker Professional Development Corporation** | Nov 2024–May 2025
Counsel: Baker Botts LLP
Expert Scope: Consulting expert. Analyzed software implementing adaptive bitrate live video streaming.
Technology: Video streaming; adaptive bitrate streaming.

- **NEC Corporation v. Peloton Interactive, Inc.** | May 2023–Oct 2025
Counsel: Baker Botts LLP
Expert Scope: Consulting expert. Analyzed source code implementing adaptive bitrate video streaming technologies in support of a patent infringement matter.
Technology: Adaptive bitrate video streaming; multimedia content delivery; streaming software.
- **Top Victory Investments Ltd. v. DivX, LLC** | Apr 2023–Aug 2024
Jurisdiction: Superior Court of California, County of San Diego
Case Number: 37-2022-00024579-CU-CO-CTL
Counsel: O'Melveny & Myers LLP
Expert Scope: Analyzed digital television products, source code, and technical documentation in a licensing dispute.
Technology: Digital television; multimedia software; technology licensing.
- **Certain Video Processing Devices, Components Thereof, and Digital Smart Televisions Containing Same; DivX, LLC v. Amazon.com, Inc., et al.** | Jan 2023–Sept 2023
Counsel: Fenwick & West LLP
Expert Scope: Consulting expert. Analyzed source code and hardware implementations related to video streaming technologies in support of a patent infringement investigation.
Technology: Video streaming; multimedia systems; streaming devices.
- **FUJIFILM Sonosite, Inc. v. Butterfly Network, Inc.** | Jan 2023–Sept 2023
Counsel: Baker Botts LLP
Expert Scope: Consulting expert. Analyzed source code and hardware implementations supporting ultrasound imaging systems in a patent infringement matter.
Technology: Ultrasound imaging; medical imaging; image processing; embedded software.
- **Image Processing Technologies, LLC v. LG Electronics Inc., et al.** | Oct 2022–May 2023
Counsel: O'Melveny & Myers LLP
Expert Scope: Consulting expert. Analyzed source code implementing AI-based image processing and gesture detection features in support of a patent infringement matter.
Technology: Computer vision; image processing; gesture detection; mobile software.
- **WSOU Investments LLC v. OnePlus Technology (Shenzhen) Co., Ltd.** | Apr 2022–May 2023
Counsel: Morgan, Lewis & Bockius LLP
Client: OnePlus Technology (Shenzhen) Co., Ltd. (Defendant)
Expert Scope: Testifying expert. Analyzed modem firmware supporting LTE and 5G NR cellular technologies and prepared expert reports.
Technology: LTE; 5G NR; cellular communications; modem firmware.
- **Vocalife LLC v. Google LLC** | Aug 2021–Mar 2022
Counsel: Munger, Tolles & Olson LLP
Expert Scope: Consulting expert. Analyzed firmware running on Google audio speech recognition devices, including signal processing algorithms related to beamforming from microphone arrays. Technology: Audio processing; speech detection; microphone arrays; beamforming; embedded firmware.
- **WSOU Investments LLC v. Google LLC** | Sept 2021–Apr 2022
Counsel: Warren Lex LLP
Expert Scope: Consulting expert. Analyzed mobile software technologies, including geolocation and handwriting recognition, in support of patent infringement litigation.
Technology: Mobile software; geolocation; handwriting recognition; Android.

- **Certain Video Security Equipment and Systems, Related Software, Components Thereof, and Products Containing Same; Verkada, Inc. v. Motorola Solutions, Inc. and Avigilon Corporation** | July 2021–Nov 2022
 Counsel: Baker Botts LLP
 Expert Scope: Consulting expert. Analyzed firmware running on video security cameras and related backend software in support of a patent infringement investigation.
 Technology: Computer vision; video security cameras; embedded firmware; video analytics; backend software.
- **Traeger Pellet Grills LLC v. GMG Products LLC** | Jan 2021–Dec 2021
 Jurisdiction: U.S. District Court, District of Nevada
 Case Number: 2:20-cv-02161-MMD-DJA
 Counsel: McDermott Will & Emery LLP
 Expert Scope: Consulting expert. Analyzed firmware, backend software, and communications protocols supporting wirelessly connected pellet grills in a patent infringement matter.
 Technology: IoT devices; embedded firmware; wireless communications; cloud-connected devices.
- **GE Healthcare Bio-Sciences AB, et al. v. Bio-Rad Laboratories, Inc.** | Sept 2020–Nov 2020
 Counsel: Quinn Emanuel Urquhart & Sullivan LLP
 Expert Scope: Consulting expert. Analyzed software and control systems used in automated liquid chromatography platforms in support of a patent infringement matter.
 Technology: Automated liquid chromatography; laboratory automation; instrument control systems; embedded software.
- **Voxer, Inc. and Voxer IP LLC v. Facebook, Inc. and Instagram LLC** | July 2020–July 2021
 Counsel: Quinn Emanuel Urquhart & Sullivan LLP
 Expert Scope: Consulting expert. Analyzed technologies for the transmission, broadcast, and reception of multimedia streams in support of a patent infringement matter.
 Technology: Multimedia streaming; live video streaming; media transmission protocols; streaming software.
- **Facebook, Inc., WhatsApp, Inc., and Instagram, LLC v. BlackBerry Limited** | July 2020–Dec 2020
 Counsel: Quinn Emanuel Urquhart & Sullivan LLP
 Expert Scope: Consulting expert. Analyzed source code for mobile software applications supporting patent infringement claims involving multiple software technologies, including geolocation and document management.
 Technology: Mobile software; geolocation; document management.
- **Barkan Wireless IP Holdings, L.P. v. CommScope Technologies LLC, et al.** | Mar 2020–July 2020
 Counsel: Baker Botts LLP
 Expert Scope: Consulting expert. Analyzed firmware implementing femtocell communications and cellular networking technologies in support of patent litigation and related PTAB proceedings.
 Technology: Femtocells; LTE; EV-DO; cellular communications; embedded firmware.
- **Sonos, Inc. v. Google LLC** | Mar 2020–June 2021
 Counsel: Quinn Emanuel Urquhart & Sullivan LLP
 Expert Scope: Consulting expert. Analyzed networked audio streaming systems, including media players, servers, and communications protocols, in support of patent infringement litigation.
 Technology: Audio streaming; multi-room audio systems; media servers; streaming protocols.
- **Uniloc 2017 LLC v. Google, Inc.** | Dec 2019–July 2020
 Counsel: Cooley LLP
 Expert Scope: Consulting expert. Analyzed multimedia streaming systems, including media players, servers, and communication protocols.
 Technology: Multimedia streaming; media players; media servers; streaming protocols.

- **Bell Northern Research, LLC v. ZTE Corporation** | Aug 2019–Jan 2020
Counsel: McDermott Will & Emery LLP
Expert Scope: Consulting expert. Analyzed source code for mobile devices and baseband processors in a patent infringement matter.
Technology: LTE communications; mobile devices; baseband processors.
- **PACT XPP Schweiz AG v. Intel Corporation** | Aug 2019–June 2022
Counsel: Quinn Emanuel Urquhart & Sullivan LLP
Expert Scope: Consulting expert. Analyzed source code implementing graphics processor technologies.
Technology: Graphics processors (GPUs); graphics software.
- **Certain Capacitive Touch Sensing Systems, Capacitive Touch Sensing Controllers, Microcontrollers with Capacitive Touch Sensing Functionality, and Components Thereof: Neodron Ltd. v. Amazon.com, Inc., et al.** | June 2019–Aug 2020
Counsel: Morrison & Foerster LLP
Expert Scope: Consulting expert. Analyzed firmware and hardware implementations for touchscreen controller technologies in an ITC investigation.
Technology: Touchscreen controllers; embedded firmware; touch sensing hardware.
- **Certain Capacitive Touch Sensing Systems, Capacitive Touch Sensing Controllers, Microcontrollers with Capacitive Touch Sensing Functionality, and Components Thereof: Neodron Ltd. v. Samsung Electronics Co., Ltd., et al.** | June 2019–Aug 2020
Counsel: O'Melveny & Myers LLP
Expert Scope: Consulting expert. Analyzed firmware and hardware implementations for touchscreen controller technologies in an ITC investigation.
Technology: Touchscreen controllers; embedded firmware; touch sensing hardware.
- **Neodron Ltd. v. Dell Inc.** | June 2019–Aug 2020
Counsel: Alston & Bird LLP
Expert Scope: Testifying expert. Analyzed firmware and hardware implementations for touchscreen controller technologies in an ITC investigation.
Technology: Touchscreen controllers; embedded firmware; touch sensing hardware.
- **Dish Network L.L.C. v. Jadoo TV, Inc.** | Mar 2019–July 2019
Counsel: Baker Botts LLP
Expert Scope: Consulting expert. Analyzed source code for streaming video set-top box technologies.
Technology: Streaming video; set-top boxes; embedded software; multimedia systems.
- **Infernal Technology LLC v. Microsoft Corporation** | Mar 2019–Sept 2019
Counsel: Tanduri LLP
Expert Scope: Analyzed graphics processor source code related to video game graphics engines.
Technology: Graphics processors; video game graphics engines.
- **ZiiLabs Inc. v. NVIDIA Corporation** | June 2018–Dec 2018
Counsel: Quinn Emanuel Urquhart & Sullivan LLP
Expert Scope: Consulting expert. Analyzed source code implementing graphics processor technologies.
Technology: Graphics processors; graphics software.
- **BiTMICRO Inc. v. Samsung** | June 2018–Nov 2018
Counsel: Kirkland & Ellis LLP
Expert Scope: Analyzed source code for solid-state storage drivers.
Technology: Solid-state storage; storage drivers; embedded software.

- **Tessera Advanced Technologies, Inc. v. Samsung** | Nov 2017–Dec 2018
Counsel: O'Melveny & Myers LLP
Expert Scope: Consulting expert. Analyzed source code implementing image processing and computer vision algorithms for camera systems.
Technology: Image processing; computer vision; camera software.
- **Sony, Inc. v. FujiFilm, Inc.** | Nov 2017–July 2018
Counsel: Quinn Emanuel Urquhart & Sullivan LLP
Expert Scope: Consulting expert. Analyzed drive software source code in a matter involving magnetic drive technologies.
Technology: Magnetic drive technologies; drive software.
- **Motorola Solutions v. Hytera Inc.** | June 2017–Oct 2017
Counsel: Kirkland & Ellis LLP
Expert Scope: Analyzed source code for two-way radio communication systems in support of a patent infringement matter.
Technology: Two-way radios; wireless communications; embedded software.
- **ZiiLabs Inc. v. Advanced Micro Devices, Inc.** | Mar 2017–Aug 2017
Counsel: O'Melveny & Myers LLP
Expert Scope: Consulting expert. Analyzed source code implementing graphics processor architecture and related algorithms.
Technology: Graphics processors (GPUs); graphics architecture.
- **IP Bridge, Inc. v. TCL Communication Technology Holdings Ltd.** | Mar 2017–Oct 2017
Counsel: Morrison & Foerster LLP
Expert Scope: Analyzed UMTS/LTE baseband software source code in support of patent infringement claims.
Technology: 4G LTE; UMTS; mobile devices; baseband processors; cellular communications.
- **Nokia v. Huawei** | Jan 2017–Aug 2017
Counsel: Alston & Bird LLP
Expert Scope: Analyzed UMTS/LTE baseband software source code in support of patent infringement claims.
Technology: 4G LTE; UMTS; mobile devices; baseband processors; cellular communications.
- **Amazon, Inc. v. Eolas Technologies, Inc.** | Jan 2017–June 2017
Counsel: Latham & Watkins LLP
Expert Scope: Consulting expert. Analyzed source code for internet-based software systems in support of a patent infringement matter.
Technology: Internet systems; web software.
- **Google, Inc. v. Eolas Technologies, Inc.** | Jan 2017–Aug 2017
Counsel: Quinn Emanuel Urquhart & Sullivan LLP
Expert Scope: Consulting expert. Analyzed source code for internet-based software systems in support of a patent infringement matter.
Technology: Internet systems; web software.
- **Fitbit, Inc. v. Valencell, Inc.** | Jan 2017–June 2017
Counsel: Quinn Emanuel Urquhart & Sullivan LLP
Expert Scope: Consulting expert. Analyzed digital signal processing algorithms supporting motion tracking using accelerometers.
Technology: Motion tracking; digital signal processing; accelerometers; wearable devices.

- **IBM v. Teraproc Inc.** | Nov 2016–Feb 2017
Counsel: Kirkland & Ellis LLP
Expert Scope: Analyzed source code in a trade secret and copyright matter involving server load-sharing software.
Nature of Suit: Trade secrets; copyright
Technology: Server software; load balancing.
- **California Institute of Technology v. Broadcom Ltd., et al.** | Dec 2016–Sept 2018
Counsel: Quinn Emanuel Urquhart & Sullivan LLP
Expert Scope: Consulting expert. Analyzed hardware and software implementations of LDPC encoder and decoder technologies in support of patent infringement litigation.
Technology: Error correction coding (LDPC); IEEE 802.11n/ac; wireless communications; hardware and software implementations.
- **Samsung Electronics Co., Ltd. v. Huawei Technologies Co., Ltd.** | Nov 2016–Sept 2018
Counsel: Quinn Emanuel Urquhart & Sullivan LLP
Expert Scope: Analyzed UMTS/LTE baseband software source code in support of patent infringement litigation.
Technology: 4G LTE; UMTS; mobile devices; baseband processors; cellular communications.
- **Image Processing Technologies LLC v. Samsung Electronics Co., Ltd.** | Sept 2016–July 2020
Counsel: O'Melveny & Myers LLP
Expert Scope: Consulting expert. Analyzed source code implementing image processing and computer vision algorithms for camera systems.
Technology: Image processing; computer vision; camera software.
- **Palo Alto Networks, LA Unified School District, and Mobile Active Defense Inc.** | July 2016–Oct 2016
Expert Scope: Neutral expert retained jointly by all parties to perform source code analysis in a trade secret and copyright matter.
Nature of Suit: Trade secrets; copyright
- **Raytheon v. Cray** | July 2016–Sept 2016
Counsel: Steptoe & Johnson LLP
Expert Scope: Consulting expert. Analyzed technologies related to network routing devices in support of a patent matter.
Technology: Routing devices; networking; communications systems.
- **Avago Technologies Ltd. v. ASUSTeK Computer Inc.** | June 2016–Oct 2016
Counsel: Alston & Bird LLP
Expert Scope: Consulting expert. Analyzed technologies related to wireless communications and video processing in support of a patent infringement matter.
Technology: Wireless communications; video processing; multimedia systems.
- **Evolved Wireless LLC v. Samsung Electronics Co., Ltd.** | Feb 2016–Nov 2017
Counsel: Quinn Emanuel Urquhart & Sullivan LLP
Expert Scope: Analyzed technologies related to 4G LTE mobile devices and base stations in support of patent infringement litigation.
Technology: 4G LTE; mobile devices; base stations; cellular communications.
- **Wal-Mart Stores, Inc. v. Eolas Technologies, Inc.** | Jan 2016–June 2017
Counsel: White & Case LLP
Expert Scope: Consulting expert. Analyzed source code for internet-based software systems in support of a patent infringement matter.
Technology: Internet systems; web software.

- **Dynamic Digital Depth Research Pty Ltd. v. LG Electronics, Inc.** | Jan 2016–Aug 2017
Counsel: Quinn Emanuel Urquhart & Sullivan LLP
Expert Scope: Consulting expert. Analyzed source code implementing 2D-to-3D image conversion technologies.
Technology: 2D-to-3D conversion; image processing; computer vision.
- **Cellular Communications Equipment LLC v. Samsung Electronics Co., Ltd.** | Jan 2016–May 2016
Counsel: Quinn Emanuel Urquhart & Sullivan LLP
Expert Scope: Consulting expert. Analyzed technologies related to UMTS cellular communications in support of patent infringement litigation.
Technology: UMTS; cellular communications; mobile devices.
- **Cisco Systems, Inc. v. Backflip Software** | Oct 2015–Sept 2016
Counsel: Winston & Strawn LLP
Expert Scope: Analyzed software implementing unified messaging systems in support of a patent matter.
Technology: Unified messaging; enterprise software; communications systems.
- **Raytheon v. Sony** | Oct 2015–Jan 2016
Counsel: Steptoe & Johnson LLP
Expert Scope: Consulting expert. Analyzed hardware and software supporting semiconductor manufacturing processes for digital camera devices.
Technology: Semiconductor manufacturing; digital cameras; hardware; software.
- **PerDiemCo LLC v. Industrack, et al.** | Oct 2015–Oct 2017
Counsel: Quinn Emanuel Urquhart & Sullivan LLP
Expert Scope: Consulting expert. Analyzed source code implementing geolocation and asset-tracking technologies.
Technology: Geolocation; GPS tracking; asset tracking.
- **Google Inc. v. CallWave Communications, LLC** | June 2015–Sept 2015
Counsel: Winston & Strawn LLP
Expert Scope: Analyzed software implementing Voice over IP (VoIP) systems in support of a patent matter.
Technology: Voice over IP (VoIP); communications software; networking.
- **Fortinet, Inc. v. FireEye, Inc.** | June 2015–Aug 2015
Counsel: Quinn Emanuel Urquhart & Sullivan LLP
Expert Scope: Consulting expert. Analyzed source code for distributed malware detection systems.
Technology: Malware detection; cybersecurity; distributed systems.
- **Hitachi v. TPV Technology Ltd.** | Apr 2015–Jan 2016
Counsel: O'Melveny & Myers LLP
Expert Scope: Testifying expert. Analyzed source code and technical documentation for digital television system-on-chip (SoC) technologies in a patent infringement matter.
Technology: Digital televisions; system-on-chip (SoC); embedded software; multimedia systems.
- **Samsung Electronics Co., Ltd. v. NVIDIA Corporation** | Dec 2014–Apr 2016
Counsel: Kirkland & Ellis LLP
Expert Scope: Consulting expert. Analyzed source code implementing graphics processor algorithms.
Technology: Graphics processors (GPUs); graphics algorithms.
- **Rovi Corporation v. Netflix, Inc.** | Nov 2014–Aug 2015
Counsel: McDermott Will & Emery LLP
Expert Scope: Consulting expert. Analyzed source code supporting video-on-demand streaming systems.
Technology: Video-on-demand; streaming video; multimedia systems.

- **Cellular Communications Equipment LLC v. Samsung Electronics Co., Ltd.** | Oct 2014–Aug 2015
Counsel: Quinn Emanuel Urquhart & Sullivan LLP
Expert Scope: Consulting expert. Analyzed technologies related to UMTS cellular communications and IP firewall systems in support of patent infringement litigation.
Technology: UMTS; cellular communications; IP firewalls; networking.
- **California Institute of Technology v. Hughes Network Systems** | Oct 2014–Mar 2015
Counsel: Quinn Emanuel Urquhart & Sullivan LLP
Expert Scope: Consulting expert. Analyzed hardware and software implementations of LDPC encoder and decoder technologies for satellite communications systems.
Technology: Error correction coding (LDPC); DVB-S2; satellite communications; hardware and software implementations.
- **CSIRO v. MediaTek Inc.** | July 2014–June 2015
Counsel: Quinn Emanuel Urquhart & Sullivan LLP
Expert Scope: Consulting expert. Analyzed technologies related to OFDM and IEEE 802.11 wireless communications in support of a patent matter.
Technology: OFDM; IEEE 802.11; wireless communications.
- **Adaptix, Inc. v. AT&T Mobility LLC and HTC Corporation** | May 2014–Oct 2014
Counsel: Akin Gump Strauss Hauer & Feld LLP
Expert Scope: Analyzed technologies related to 4G LTE mobile communications in support of patent infringement litigation.
Technology: 4G LTE; mobile devices; cellular communications.
- **Rockstar v. Google Inc.** | Oct 2014–Dec 2014
Counsel: Quinn Emanuel Urquhart & Sullivan LLP
Expert Scope: Consulting expert. Analyzed technologies related to internet systems and mobile devices, including mapping software, in support of patent infringement litigation.
Technology: Internet technologies; mobile devices; mapping software.
- **Rockstar v. Samsung Electronics Co., Ltd.** | May 2014–Oct 2014
Counsel: Quinn Emanuel Urquhart & Sullivan LLP
Expert Scope: Consulting expert. Analyzed internet technologies, mobile devices, firewall systems, and network security technologies in support of patent infringement litigation.
Technology: Internet technologies; mobile devices; firewalls; network security.
- **National Cheng Kung University (NCKU) v. Samsung Electronics Co., Ltd.** | May 2014–July 2014
Counsel: O'Melveny & Myers LLP
Expert Scope: Consulting expert. Analyzed technologies related to camera image processing in support of a patent infringement matter.
Technology: Image processing; digital cameras; computer vision.
- **SK hynix Inc.** | Apr 2014
Counsel: K&L Gates LLP
Expert Scope: Reviewed technologies related to read channel detectors and error correction algorithms for disk controllers.
Technology: Disk controllers; read channel detectors; error correction algorithms; storage systems.
- **Optical Devices, LLC v. Samsung Electronics Co., Ltd.** | Jan 2014–July 2014
Counsel: O'Melveny & Myers LLP
Expert Scope: Consulting expert. Analyzed servo control algorithms for optical disc drive controllers in support of an ITC patent investigation.
Technology: Optical disc drives; servo control algorithms; storage controllers; embedded systems.

- **Optical Devices, LLC v. MediaTek Inc.** | Jan 2014–July 2014
Counsel: Quinn Emanuel Urquhart & Sullivan LLP
Expert Scope: Consulting expert. Analyzed servo control algorithms for optical disc drive controllers in support of an ITC patent investigation.
Technology: Optical disc drives; servo control algorithms; storage controllers; embedded systems.
- **Lenovo** | Apr 2014–Aug 2015
Counsel: Akin Gump Strauss Hauer & Feld LLP
Expert Scope: Expert in patent litigation involving technologies for the storage and migration of user settings.
Technology: User settings; data migration; mobile software.
- **STMicroelectronics** | July 2013–Mar 2014
Counsel: Quinn Emanuel Urquhart & Sullivan LLP
Expert Scope: Consulting expert. Analyzed technologies related to accelerometer signal processing and motion detection sensors in support of an ITC patent investigation.
Technology: Accelerometers; motion detection; signal processing; embedded systems.
- **Samsung Electronics Co., Ltd.** | Oct 2012–July 2014
Counsel: Quinn Emanuel Urquhart & Sullivan LLP; Steptoe & Johnson LLP; Williams & Connolly LLP
Expert Scope: Consulting expert. Analyzed technologies related to 3G cellular communications, mobile devices, user interface technologies, gesture recognition, and touchscreen controllers in support of multiple patent infringement matters.
Technology: 3GPP Release 99; WCDMA; HSDPA; HSUPA; mobile devices; gesture recognition; touchscreen controllers.
- **Vringo Inc.** | Jan 2014
Expert Scope: Evaluated the technical capabilities of a 3GPP network analyzer.
Technology: 3GPP; network analysis; cellular communications.
- **Lenovo** | Aug 2013–Nov 2013
Counsel: Akin Gump Strauss Hauer & Feld LLP
Expert Scope: Expert in patent litigation involving technologies for the storage and migration of user settings.
Technology: User settings; data migration; mobile software.
- **FastVDO LLC v. Universal Studios, et al.** | Jan 2013–Mar 2014
Counsel: Morrison & Foerster LLP
Expert Scope: Consulting expert. Analyzed video compression technologies in support of patent infringement litigation involving multiple defendants.
Technology: Video compression; multimedia systems; digital video.
- **MOSAID Technologies Inc. v. Marvell Semiconductor, Inc., et al.** | Oct 2012–July 2013
Counsel: Quinn Emanuel Urquhart & Sullivan LLP
Expert Scope: Consulting expert. Analyzed wireless communications technologies and communications systems in support of patent infringement litigation involving multiple defendants.
Technology: IEEE 802.11; wireless communications; communications systems.
- **MediaTek Inc. and Ralink Technology Corporation** | July 2012–May 2013
Counsel: Quinn Emanuel Urquhart & Sullivan LLP
Expert Scope: Consulting expert. Analyzed wireless communications and video processing technologies, including baseband processor source code, in support of an ITC patent investigation.
Technology: Wireless communications; video processing; baseband processors; IEEE 802.11; direct sequence spread spectrum (DSSS); video codecs.

- **Samsung Electronics Co., Ltd.** | July 2012–Dec 2012
Counsel: Ashurst LLP
Expert Scope: Consulting expert. Analyzed technologies related to 3G cellular communications and mobile phones in support of international patent litigation.
Technology: 3G cellular communications; mobile devices; WCDMA.
- **Motorola Mobility LLC** | June 2012–Dec 2012
Counsel: Steptoe & Johnson LLP
Expert Scope: Testifying expert. Analyzed haptic feedback technologies for mobile devices in support of an ITC patent investigation.
Technology: Haptic feedback; mobile devices; embedded systems.
- **Comcast Corporation** | Mar 2012–Aug 2012
Counsel: Davis Polk & Wardwell LLP
Expert Scope: Consulting expert. Analyzed CDMA2000 cellular communications technologies, including packet data network architecture and core network functions, in support of patent litigation.
Technology: CDMA2000; 3GPP2; packet data networks; Base Station Controllers (BSC); Packet Control Function (PCF); Packet Data Serving Node (PDSN); RADIUS.
- **Samsung Electronics Co., Ltd.** | Mar 2011–Dec 2012
Counsel: Quinn Emanuel Urquhart & Sullivan LLP; Steptoe & Johnson LLP
Expert Scope: Consulting expert. Analyzed technologies related to 3G cellular communications, mobile devices, user interface technologies, gesture recognition, and touchscreen controllers in support of ITC and district court patent litigation.
Technology: 3GPP Release 99; WCDMA; HSDPA; HSUPA; mobile devices; gesture recognition; touchscreen controllers.
- **Link_A_Media Devices Corporation** | Nov 2010–Oct 2011
Counsel: Morrison & Foerster LLP
Expert Scope: Consulting expert. Analyzed channel equalization, detection, and error correction technologies for magnetic disk storage systems in support of patent litigation.
Technology: Magnetic disk storage; LDPC; soft-output Viterbi algorithm (SOVA); channel equalization; error correction coding.
- **Rambus Inc. v. Broadcom Corp., MediaTek Inc., et al.** | Feb 2011–Sept 2011
Counsel: Quinn Emanuel Urquhart & Sullivan LLP
Expert Scope: Consulting expert. Analyzed channel equalization technologies for high-speed communication buses in support of an ITC patent investigation.
Technology: High-speed bus communications; channel equalization; signal processing.
- **DocMagic, Inc.** | June 2011–Aug 2011
Counsel: Morrison & Foerster LLP
Expert Scope: Testifying expert. Conducted a technical investigation of software, evaluated its independent development, and prepared expert reports for a software copyright matter.
Technology: software development.
- **Sony Corporation** | June 2011–Aug 2011
Counsel: Quinn Emanuel Urquhart & Sullivan LLP
Expert Scope: Consulting expert. Analyzed technologies related to digital televisions, IPTV systems, image processing, content protection, and networking protocols in support of ITC and district court patent litigation.
Technology: Digital televisions; IPTV; image processing; content protection; networking protocols.

- **Motorola, Inc.** | Mar 2011–Nov 2011
Counsel: Quinn Emanuel Urquhart & Sullivan LLP
Expert Scope: Consulting expert. Analyzed user interface technologies for cable television set-top boxes in support of ITC and district court patent litigation.
Technology: Cable set-top boxes; user interfaces; digital television; embedded software.
- **Autodesk Corporation** | Apr 2010–Nov 2010
Counsel: Morrison & Foerster LLP
Expert Scope: Testifying expert in software copyright litigation involving image processing, color correction, and video effects software.
Nature of Suit: Copyright
Technology: Image processing; color correction; video effects software.
- **Sony Corporation** | Feb 2010–Nov 2010
Counsel: Quinn Emanuel Urquhart & Sullivan LLP
Expert Scope: Consulting expert. Analyzed digital television technologies, including image processing, content protection, and networking protocols, in support of an ITC patent investigation.
Technology: Digital televisions; image processing; content protection; networking protocols.
- **Funai Corporation** | Oct 2009–Jan 2010
Counsel: Morrison & Foerster LLP
Expert Scope: Consulting expert. Analyzed digital television technologies involving the ATSC DTV protocol in support of an ITC patent investigation.
Technology: Digital television; ATSC; DTV protocols.
- **Sony Corporation** | May 2009–Nov 2009
Counsel: Quinn Emanuel Urquhart & Sullivan LLP
Expert Scope: Consulting expert. Analyzed digital television technologies involving physical layer communications, error correction coding, image processing, content protection, and networking protocols.
Technology: Digital televisions; Reed-Solomon codes; trellis coding; image processing; content protection; networking protocols.
- **Sokkia Corporation** | Apr 2009–Aug 2009
Counsel: Morrison & Foerster LLP
Expert Scope: Consulting expert. Analyzed surveying software utilizing Global Positioning System (GPS) technologies in a software copyright dispute.
Nature of Suit: Copyright
Technology: GPS; surveying software; geospatial systems.
- **Funai Corporation** | Dec 2007–Dec 2008
Counsel: Morrison & Foerster LLP
Expert Scope: Consulting expert. Analyzed digital television technologies involving video scaling and the ATSC digital television standard in support of an ITC patent investigation.
Technology: Digital television; ATSC; video scaling; video processing.

Technical Due Diligence & Strategic Consulting

- **Gantz Mountain Intelligence Automation Systems, Inc.** | June 2014–Oct 2016
Expert Scope: Technical advisor and consultant. Designed and developed proprietary intelligent sensor nodes and wireless networking technologies for defense and situational awareness applications.
Technology: Wireless sensor networks; embedded systems; defense technologies; situational awareness.
- **Google Inc.** | Oct 2013–Sept 2016
Expert Scope: Retained as a consulting expert to analyze patent portfolios related to Google Voice, Android, and mobile technologies.
Technology: Google Voice; Android; mobile technologies.
- **Patent Portfolio Due Diligence** | May 2012–June 2012
Counsel: Gutride Safier LLP
Expert Scope: Performed technical due diligence on a patent portfolio involving distributed software systems.
Technology: Distributed software systems.
- **Toshiba** | May 2011–July 2011
Counsel: Morrison & Foerster LLP
Expert Scope: Software engineering expert for an acquisition transaction. Reviewed software and hardware technologies for a target company and prepared an expert report with findings.
Technology: Software engineering; hardware systems; currency counting and sorting systems; distributed sensors.
- **Florentine Partners** | Oct 2007–Sept 2008
Expert Scope: Performed technical due diligence on technology companies for potential investment opportunities, evaluating communications systems, computer networks, and emerging technologies.
Technology: Communications systems; computer networks.

Engineering Leadership & Technical Innovation

- **SkyClix, Inc.** | Feb 2007–Oct 2008
Role: Lead Software Engineer
Scope: Responsible for architecting and implementing a real-time music recognition platform that matched audio captured from mobile phones to live FM/AM radio broadcasts using distributed Linux-based processing systems.
Technology: Audio recognition; distributed systems; real-time signal processing; Linux; C/C++; mobile applications.
- **Plantronics, Inc.** | Sept 2006–Mar 2008
Role: Lead Software Engineer
Scope: Responsible for the architecture and development of a wireless Voice over IP (VoIP) headset platform, including embedded software, Linux device drivers, audio processing, Wi-Fi communications, and automated device configuration. Also contributed to multiple advanced R&D projects involving digital signal processing and Android application development.
Technology: Voice over IP (VoIP); IEEE 802.11; embedded Linux; SIP; audio drivers; Wi-Fi; digital signal processing; Android.
- **Visioneering, Inc.** | Mar 2006–Sept 2006
Role: Lead Software Engineer
Scope: Designed and developed an IPTV video-on-demand prototype on the Texas Instruments DaVinci platform, integrating embedded Linux, multimedia codecs, media players, and streaming infrastructure.
Technology: IPTV; video on demand; embedded Linux; Texas Instruments DaVinci; H.264; AAC; multimedia streaming.

- **CalAmp, Inc.** | Feb 2006–Apr 2006
Role: Lead Software Engineer
Scope: Led the design and development of a 4x4 RF satellite switch for EchoStar (Dish Network), implementing RF switching logic, power management, hardware control, and embedded software across dual Atmel microcontrollers.
Technology: Embedded systems; RF switching; satellite communications; power management; Atmel microcontrollers; C; assembly language.
- **Raytheon** | Sept 2005–Apr 2006
Role: Software Engineering Consultant
Scope: Designed real-time radio frequency detection, identification, and jamming technologies, including DSP architectures and signal processing algorithms for counter-IED applications.
Technology: RF signal processing; electronic warfare; digital signal processing; RF jamming; embedded systems.
- **Verimatrix, Inc.** | Feb 2005–Sept 2006
Role: Software Engineering Consultant
Scope: Developed conditional access and content protection technologies for IPTV systems, including video watermarking, error correction coding, embedded software, video encryption infrastructure, and automated testing tools for large-scale video delivery platforms.
Technology: IPTV; conditional access; content protection; video watermarking; Reed-Solomon coding; H.264; embedded Linux; digital signal processing.
- **Welch Allyn** | Feb 2005–Jan 2006
Role: Embedded Software Engineer
Scope: Developed embedded software for a wireless heart monitoring system, including bootloader development, board bring-up, peripheral drivers, wireless interface integration, manufacturing diagnostics, and RF calibration.
Technology: Embedded Linux; ARM9; IEEE 802.11a/b/g; wireless medical devices; board support packages (BSP); device drivers.
- **GDSS, Inc.** | Jan 2000–Jan 2005
Role: Lead Software Engineer / Systems Architect
Scope: Architected wireless Voice over IP and Video over IP platforms, including embedded endpoint software, distributed streaming servers, wireless networking infrastructure, digital signal processing algorithms, and quality-of-service optimization for telecommunications systems.
Technology: Voice over IP (VoIP); Video over IP (VoIP); H.323; RTP/UDP; TCP/IP; OFDM; CDMA2000 EV-DO; DECT; digital signal processing; G.723.1; echo cancellation; embedded Linux; streaming media.

Academic Research

- Actively conducts research in distributed computing, communications networks, computer vision, artificial intelligence, sensor networks, and embedded systems.
- Published multiple technical articles, coauthored a book chapter, been on the committees of technical conferences, given lectures at both universities and conferences.
- Serves as a visiting lecturer at the **Naval Postgraduate School (NPS)** in Artificial Intelligence Distributed Sensor Network Systems.
- Collaborates with professors from **NPS, Stanford, UCSD** and **UC Berkeley** in research.
- Local Arrangements Chair, **Cognitive Systems with Interactive Sensors**, 2007 (COGIS 07), Stanford, CA.

Publications

- J.Goshorn | 2009
"A Distributed Architecture for Object Tracking Across Intelligent Vision Sensor Network with Constrained Resources,"
PhD Forum, IEEE/ACM Intl. Conf. on Distributed Smart Cameras (ICDSC).
- Rachel E. Goshorn, Deborah E. Goshorn, Joshua L. Goshorn, and Lawrence A. Goshorn | Jan 2009
"Behavior Modeling for Detection, Identification, Prediction, and Reaction (DIPR) in AI Systems Solutions" for Journal of Ambient Intelligence and Smart Environments (JAISE), Springer Handbook; ISSN: 1876-1364 — IOS Press. (Invited Chapter; Initial Draft Submitted September 2008; Final Draft submitted January 2009).
- Rachel Goshorn, Deborah Goshorn, Joshua Goshorn, and Lawrence Goshorn | Sept 2008, Stanford, California
"Abnormal Behavior-Detection Using Sequential Syntactical Classification in a Network of Clustered Cameras,"
Workshop on Activity Monitoring by Multi-camera Surveillance Systems (AMMCSS), 2nd ACM/IEEE International Conference on Distributed Smart Cameras (ICDSC-08).
- R. Goshorn, J. Goshorn, D. Goshorn, and H. Aghajan | Sept 2007, Vienna, Austria
"Architecture for Cluster-based Automated Surveillance Network for Detecting and Tracking Multiple Persons,"
IEEE/ACM 1st Int. Conf. on Distributed Smart Cameras (ICDSC).

Professional Associations

- **Senior Member**, IEEE Computer Society; Communications Society, Signal Processing Society.