

BEN LEVITAN

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SUMMARY OF EXPERTISE

Mobile Systems	27 patents and four trade secrets; cellular, wireless, 3G, 4G, LTE, BPL, satellite and traditional telephony, wireless, cellular, and 3G mobile phone systems, GPS, 911, TCPA, and CALEA standards and protocols, SS7, telephony systems, standards and protocol broadband, Internet and WiFi, data, billing systems (CDR), and standards development. Standards development in ANSI, 3GPP/3GPP2, ITU-T.
System Protocol Types	Current, new, and developing wireless standards for 3GPP, 3GPP2, LTE, ANSI-41, GSM, ITU-T, OMA, UMTS, BPL, and third, fourth, and fifth generation protocols.
Standards & Protocols	SS7, telephony systems, broadband, Internet, WiFi, data, billing systems (CDR) and standards development, cellular search and rescue, call detail records and analysis, qualified in federal and state courts as cellphone expert.
Standards & Systems	Active in US and international development of ANSI-41, GSM, 802.x, ITU-T (CCITT), ISDN, SS7, PTT, PoC, inter-standard roaming, FCC and US development of systems and standards for government mandates, orders with special expertise in CALEA, E-911, LBS, WPS, 3GPP, 3GPP2 and TCPA, roaming, authentication, standards and billing systems, CIBER and TAP/TAP2.
Project Management	GSM to CDMA gateway, 911 service bureau, LNP service bureau, and other wireless third-party offerings to wireless carriers, GSM billing systems, cell broadcast project, CALEA.
Business Development	Subject matter expert (SME) in mobile and wireless systems to Sprint, Nextel, Verizon, and Alcatel providing industry trends, roadmaps, and market intelligence reporting to C-level and business development.
Extensive Government Regulatory & Technical Support	FCC filings and meetings before commissioner (Wiley, Rien & Fielding) regarding SS7 tariffs, CALEA (wiretap), Wireless Priority Services (WPS), Local Number Portability (LNP), and other government mandates. Committees: 3GPP, 3GPP2, TIA TR-45, TR-46, PTSC (TISI), T1 committees since 1984, ITU-T (previously CCITT) AMTA (SMR) UTC, SHS, and CALEA summits, FBI, U.S. State Department SG-B & SG-D, GSM, GGRF, ARINC, RTCA, and various joint experts committees.
UN Activity	Member of the U.S. delegation to the United Nations' Committee on Telecommunications (ITU-T) for 12 years.
Committees	3GPP, 3GPP2, TIA TR-45, TR-46, PTSC (TISI), T1 Committees since 1984, ITU-T (previously CCITT) AMTA (SMR) UTC, CTIA committees. CALEA LAES, SHS and CALEA Summits, GSM, GGRF, ARINC, RTCA, State Department SG-B & SG-D, and various Joint Experts meetings.
Extensive Litigation Support	Civil, Criminal and Patent Infringement matters. Expert Witness engaged in expert testimony re: Wiretap (CALEA), Location-based Evidence, IPR (issues of validity, timely disclosure, non-infringement, ITC TCPA matters), 911 Wrongful Deaths, Texting While Driving matters, Spoofing, Billing Disputes and other Federal civil and criminal matters involving telephone evidence, GPS, and other digital evidence. Qualified as an expert in Federal and State Courts. Extensive Daubert support v. FBI CAST. Rule 26 Litigation List available upon request.

KEY ACCOMPLISHMENTS

- Key Designer of the US Wiretap System (CALEA)
- Key Participant in the design and development of US Wireless 911 system.
- Expert in first technical challenge to wiretap evidence (USA v. Reed)
- Nextel Top Innovator Award, one of two company-wide awards out of 19,000 employees.
- Selected by peers to represent 3GPP2 core network as speaker at International CDMA Summit.

Patents

- Patent Award (renewed 2018): Network-Based Systems and Methods to block texting while driving.
- 32 patent applications (27 independent).
- 4 trade secrets developed and help by Sprint.
- 12 patents published.
- 8 patent applications currently on public review.

National & Local Media Appearances

- Appear regularly on CNN / HLN and major media outlets as cell phone expert.
- Consulted with writers of scripted A&E crime drama.
- Frequent Guest on TV Shows as “Telecommunications Expert” on matters of Cellular Evidence, including: Oxygen specials, Nancy Grace (8 years), Shepard Smith, Keith Olbermann, and various local network stories.
- Frequent guest on multiple Radio Shows, and often quoted in printed material regarding cellular phone evidence.

Publications

- Authored, “GPS Systems” published by Althos Publishing.
- Selected by McGraw-Hill to write book on GSM.
- Selected by Althos Publishing to author book on technical and market aspects of BPL.

EXPERIENCE

BEN LEVITAN, LLC, Raleigh, NC

2006-Present

Telecommunications Consultant on Cellular Network, Wireless & Broadband Telephony, and GPS

- Telecommunications consulting, authoring of technical books and for various news and scripted TV shows.
- Expert Witness in IPR matters related to 3GPP standards vs. plaintiff’s intellectual property.
- Expert in IPR matters as invalidity and non-infringement roles.
- System Design Developer for government mobile tracking system.
- Designer and Business Developer of network-based texting while driving feature (NNID.org).
- Expert in numerous criminal matters related to wiretap (CALEA), StingRay technology, and cell tower simulators.
- Expert in numerous civil matters regarding state citizenship, theft of trade secrets, and personal injury.
- Expert in numerous matters as 911 systems and methods, providing system failure analysis.

SPRINT (previously NEXTEL COMMUNICATIONS), Reston, VA

2003-2005

Senior Manager, Global Technology Standards (Nextel’s Technology & Strategy Group)

- Served as company’s sole representative to 3GPP2 standards development committee with focus on Core Network Standards, and on all CALEA standards matters.

Accomplishments:

- Received Nextel’s Top Innovator Award for 27 patent submissions, including areas of 911, Wiretap, Rural Cellular, and Calling-Party Pays.
- Developed four technical improvements in Nextel network, which company maintains as trade secrets.
- Selected by standards peers to represent 3GPP2 Core Network as Speaker at International CDMA Summit.
- Negotiated restructure of wiretap (CALEA) standards in CDMA to support company goals.
- Led team of carriers to challenge technical change that would impact company’s LNP launch.

SPRINT ACCOMPLISHMENTS (continued)

- Selected to perform technical evaluation of pre-launch i840, Nextel's first picture phone; and market and technical evaluation of its Flarion OFDM WiMax test vs. others.
- Provided competitive intelligence to C-levels and served on strategy team for first competitive PTT launch.

VERIZON COMMUNICATIONS, INC. (previously BellAtlantic and GTE), Tampa, FL 1998-2003

Manager, Standards & Technology, Reporting to Director of Engineering

- Served as primary Technical Consultant regarding wireless standards to all departments.
- Provided technical consulting for system design of new products, including LNP, Churn Management, 911 Service Bureau, and Authentication Service Bureau.
- Lent expertise to new business proposals, development, RFPs, white papers, and user guides.
- Delivered training and technical presentations to management, development, sales, and user groups.
- Provided key technical support to developers, sales and customers on all technical issues.
- Managed representation of TSI at GSM, CDMA, and TDMA standards forums.
- Spoke regularly at industry conferences.

Accomplishments:

- Initiated, launched, or provided substantial technical expertise for products for Wireless Number Portability, e.g.: SOA/ICC and IS-41 NPREQ), CALEA, UIM, 911 Phase I & Phase II, Location Services, Inter-standard Roaming (GSM <> IS-41), SMS Interoperability IS-41 Revision C, D, and E, and UIM and R-UIM development.
- Negotiated reduced requirements for CALEA with FBI CIS.
- Created training classes for customers, developers, and management on above; and trained the trainers and developed courseware for new products.
- Developed concept proposal for new opportunities in Asia, U.S., and South America
- Consulted frequently with product and launch teams for new / developing requirements.
- Developed the industry's largest and most complete online technical standards library.
- Represented GTE, Verizon, or TSI Telecommunication Services at:
 - TR45.2 (IS-41 Rev. C through E) voting member
 - GSM Global Roaming Forum (GGRF) network
 - 3PP2 (3rd Generation Partnership Program) voting member TSG-N (Now TSG-X)
 - T1P1 – Wireless and PCS Standards voting member

ALCATEL, Raleigh, NC

1995-1998

Senior System Engineer reporting to Director of Engineering

- Oversaw new feature development for the GMH2000 core switch, TDMA, and CDMA switch; and project management, system engineering, testing and commercial turn-on and standards compliance, and representation for ANSI-41 standards.

Accomplishments:

- Developed Authentication, Voice Privacy and Signaling Message Encryption, WPS (early form), SMS, CLIP, CLIR, CALEA, and others.
- Managed inter-vendor testing and resolution of customer issues.

ADDITIONAL EXPERIENCE

AERONAUTICAL RADIO, INC., Annapolis, MD

Principal Engineer, Reporting to Director of Engineering

- Role included representing U.S. airline industry at ITU, FCC, ANSI, and U.S. State Department Study Groups on technical telecom issues.
- Initiated projects on Aircraft Passenger Communications (air phone), airport networks, and entertainment interfaces.
- Completed projects including developing standards for Universal Personal Telecommunications, Personal Communications, Services, Mobile / Aeronautical Mobile Satellite Services and International/Domestic "800" Service and "888" expansion.

AERONAUTICAL RADIO (continued)

- Provided technical support on FCC issues with legal team, such as 800 number portability, including delivering presentations to the commissioners.
- Served on technical team established by U.S. Congress (RTCA) that determined the effect of cellular telephones and other passenger devices on-board commercial aircraft.

COMSAT, INC., Washington, DC

Digital Engineer, Reporting to VP of Engineering

- Role included designing, developing, and negotiating ITU (CCITT) and ANSI telecommunication standards for Signaling System #7 (SS7), ISDN, Mobile, and IMT 2000 (formerly FPLMTS).
- Served as project manager for Satellite Packet Switching/ISDN Test with budget and schedule responsibility.
- Negotiated ISDN standards to support operation over satellite.

HUGHES AIRCRAFT COMPANY, Los Angeles, CA

Technical Staff Member (CLEARANCE - SECRET), Reporting to Manager of Engineering

- Role included project design, integration, installation and test of Satellite Ground Station Subsystems.
- Delivered projects successfully, including INTELSAT and AUSSAT Stations.
- Served as System Test Engineer for NASA Galileo/Jupiter Probe, proposals, and technical customer training.

TEACHING EXPERIENCE

- Teach CLE credit classes to attorneys on technical training regarding cellular telephone as evidence in civil and criminal matters.
- Developed and presented “The Basics of Cellular Telephone Systems for Attorneys.”
- Technical training on cellular telephones for the Association of Federal Defense Attorneys via web conference.
- Courseware development for new wireless products and “train the trainers” to present the material
- Technical trainer on telephony, and project management for engineers for several seminar companies.
- Developed and presented webinars on technical issues related to 3rd Generation, WiFi, Use of Cellular Evidence for Investigations, 911 Systems, and The Basics of Cellular Telephones.

EDUCATION

DEVRY UNIVERSITY

Completing coursework towards BS in Technical Management.

UNIVERSITY OF CONNECTICUT

Completed extensive coursework towards a BSEE in Electrical Engineering.

CONTINUING EDUCATION & CERTIFICATIONS

- Training in technology, business skills, management, and project planning.
- Trained in Coverdale Methods for project management at Nextel.
- Edward Deming Total Quality Management (TQM) training.
- Earned National Emergency Number Association (NENA) 911 Certification, 2018

ADDITIONAL SKILLS

- Fluent in French (Native), with basic Japanese
- Multiple programming languages and scripting skills
- Significant hands-on troubleshooting and testing experience
- National Speakers Association Outstanding Member

HOBBIES & INTERESTS

- Private Pilot, Land and Sea
- Certified Scuba Diver
- “Elite Expert” by IMS
- UPI Award for Photography
- Certified Lifesaver / Red Cross

COMMUNITY INVOLVEMENT

- Pro Bono support to the Ohio Innocence Project
- North Carolina Search & Rescue Management and Scuba Teams.
- Selected as Docent for Smithsonian National Air & Space Museum.
- North Carolina Museum of Science Docent for Dead Sea Scrolls.