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## **Professional Summary**

Mr. Snyder has over 40 years of experience in telecommunications networking, system architecture, engineering, design, technology, financial technology (fintech), and management. He is a C-level executive with extensive experience leading product management and product development teams. He has over 20 years' experience with several early stage startups from initial seed funding through acquisition and exit.

He has expertise in wireline and wireless telecommunications networking technology. He has been retained as an expert witness in over 500 cases regarding telecommunications technology including Telephone Consumer Protection Act (TCPA), patent and intellectual property, breach of contract, illegal eavesdropping, data communications protocols, and many other areas regarding telecommunications network technology. He has been issued 47 patents on telecommunications networking technology.

Mr. Snyder has extensive knowledge and experience in the financial technology and identity management fields. He has designed multiple systems bridging cellular telecommunications technology and financial technology, fraud management, and identity management. He has been issued 33 patents regarding the use of cellular telecommunication technology to enhance financial technology, fraud management, and identity management.

Mr. Snyder has extensive knowledge and experience in the design, development and deployment of cellular telecommunications infrastructure technology and has been granted patents for short message service center (SMSC) technology, short code technology, and authentication center (AuC) technology. He has developed functional requirements, functional specifications, and design specifications for the mobile switching center (MSC), home location registers (HLR), authentication centers (AuC), short message service center (SMSC), and many other mobile network platforms.

Mr. Snyder has taught many classes and seminars on both wireline and wireless telecommunication network technologies and has been a panelist and speaker at numerous conferences at the Institute of Electrical and Electronics Engineers (IEEE) and the Cellular Telecommunications and Internet Association (CTIA). He spent several years developing network technology standards within the American National Standards Institute (ANSI) and the Telecommunications Industry Association (TIA), providing technical contributions and authoring and editing telecommunications proposed standards documents. Most notably, ANSI-93, providing interconnection technology between wireline and wireless telecommunications networks.

Mr. Snyder is the co-author of the McGraw-Hill books "Mobile Telecommunications Networking with IS-41," and "Wireless Telecommunications Networking with ANSI-41, 2nd edition" published in 1997 and 2001, respectively. He has been hired as a consultant by the CTIA, Experian, and many wireline and wireless telecommunications carriers and equipment manufacturers including: Bell Laboratories, IBM, Google, McCaw Cellular, AirTouch, AirTouch International, AT&T Wireless, AT&T Mobility, Lucent, Nokia, Ericsson, Motorola, Samsung, Siemens, Nextwave, MCI, Daewoo, Globalstar, T-Mobile, Sprint, U.S. Cellular, Teleglobe Canada, Teledesic, and others. He was nominated in 2006 for a National Television Arts Emmy Award for Outstanding Achievement in Advanced Media Technology for unique wireless content distribution technology he designed while at Entriq, Inc.

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## **Subject Matter Expertise**

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|---|--|
| ▪ Wireless and cellular network systems and architectures     | ▪ 5G Evolved Packet Core (EPC) Networks  |
| ▪ Network interconnectivity                                   | ▪ Diameter Signaling                     |
| ▪ Location Based Services (LBS)                               | ▪ Multifrequency Signaling               |
| ▪ Data communication and packet-switched networking protocols | ▪ Session Initiation Protocol (SIP)/VoIP |
| ▪ Call Processing and Calling Features                        | ▪ Voicemail and Messaging Technology     |
| ▪ Mobile Marketing Technology                                 | ▪ Ringless Voicemail (RVM)               |
| ▪ Billing Support Systems (BSS)                               | ▪ Automatic Telephone Dialing Systems    |
| ▪ Signaling System No. 7 (SS7)                                | ▪ Mobile Financial Technology (Fintech)  |
|   | ▪ Mobile Identity Management             |

## **Notable Expert Witness Engagements**

- Retained as Plaintiff's testifying expert witness in *Satterfield v. Simon & Schuster, Inc.* No. 07-16356, D.C. No. CV-06-02893-CW Opinion. Appeal from the United States District Court for the Northern District of California. Opinion remanded by the United States Court of Appeals for the Ninth Circuit. Mr. Snyder was personally cited in appellate court opinion by N.R. Smith, Circuit Judge, June 19, 2009.

Result of expert opinion greatly expanded the TCPA and was followed by multiple FCC Declaratory Rulings citing this case that text messages are calls as defined by the TCPA, and sending messages to a stored electronic list of telephone numbers falls within the definition of an Automatic Telephone Dialing System (ATDS).

- Retained as Plaintiff's testifying expert witness in *Gomez v. Campbell-Ewald Company*. No. 13-55486, D.C. No. 2:10-CV-02007-DMG-CW Opinion. Appeal from the United States District Court for the Central District of California. Opinion vacated by the United States Court of Appeals for the Ninth Circuit. Opinion by Fortunato P. Benavides, Circuit Judge. Filed September 19, 2014. Appellate court opinion upheld by the Supreme Court of the United States. Opinion by Justice Ginsburg, January 20, 2016.
- Retained by Department of Justice Canada as Plaintiff's consulting expert in *Commissioner of Competition v. Rogers Communications Inc., Bell Canada, Telus Corporation and the Canadian Wireless Telecommunications Association*, Court File No. 12-55497. Defendants accused of deceptive and misleading marketing related to premium text messages and improper charging for multimedia content delivery using various billing mechanisms. Case settled favorably for the Canada Competition Bureau in May, 2016.
- Retained by the U.S. Department of Justice as Defendant's testifying expert witness in *In re Inter Partes*

## Randall A. Snyder Curriculum Vitae

*Review of U.S. Patent No. 7,693,938, U.S. Patent No. 8,103,719, Patent No. 8,438,212, Patent No. 8,438,221 and Patent No. 9,236,954. Defendant accused of patent infringement in CellCast Technologies, LLC v. The United States of America, Case No. 1:15-cv-01307-VJW (Fed. Cl.).*

- Retained by IBM de México as testifying expert witness in *IBM de México Comercialización y Servicios, S. de R.L. de C.V. adverse Iusacell, S.A. de C.V.*, ICC Case No. 19879/ASM. International \$4B material breach of contract case under the International Chamber of Commerce International Court of Arbitration.
- Assisted in the design and requirements for the FCC's Second Report and Order for Reassigned Telephone Number Database, FCC 18-177, CG Docket No. 17-59, December 12, 2018.
- Retained as Plaintiff's testifying expert witness in *McMillion, et al. v. Rash Curtis & Associates*, No. 4:16-cv-03396-YGR (N.D. Cal.). Defendant accused of over 500,000 illegal automatically dialed calls under the TCPA, resulting in a judgment of over \$267 million and the largest settlement in any TCPA case.
- Submitted petition comments, an expert report, and made a personal presentation to the Chairman of the Consumer and Governmental Affairs Bureau to the Federal Communications Commission (FCC) instrumental in prohibiting ringless voicemail (RVM) communications to consumers without express written consent effective November 21, 2022. (See <https://docs.fcc.gov/public/attachments/FCC-22-85A1.pdf>.)

## Education

<u>Year</u>	<u>Education</u>	<u>Degree</u>
1984	Franklin and Marshall College	B.A., Mathematics (minor in Astronomy/Astrophysics)

## Professional Experience

From: January 2007  
To: Present  
Organization: Wireless Research Services, LLC; Las Vegas, NV  
Title: President and Founder  
Summary: Technology and expert witness consulting services. Areas of subject matter expertise include mobile and cellular networking, 2G, 2.5G, 3G, LTE, GSM, ANSI-41, LBS, SMS, MMS, WAP, SS7, Diameter Signaling, Automatic Telephone Dialing Systems (ATDS) and mobile multimedia systems. With this expertise, primary consulting is in the area of system and product analysis, architecture, design, development, management and marketing as well as patent preparation and development, expert reports, expert testimony, and litigation support. Particular areas of expert witness experience include patent litigation and the Telephone Consumer Protection Act.

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**Curriculum Vitae**

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From: September 2007  
To: August 2010  
Organization: Finsphere Corporation; Bellevue, WA (acquired by Visa)  
Title: Vice President Wireless Engineering and Product Management  
Summary: Among the first handful of employees at Finsphere prior to Series A funding. As vice president of product management and wireless engineering and a member of the executive management team, directed all product management activities and wireless technology solutions for Finsphere's products. These products encompassed mobile location-based software-as-a-service (SaaS) products offered primarily to financial institutions and banks. Accomplishments included product requirements and system functionality, strategic planning, R&D of new technologies, wireless network interconnectivity as well as wireless technology for Finsphere's products. Directed market strategies, white papers, development, and management of intellectual property and patent applications.

From: May 2004  
To: April 2007  
Organization: Entriq, Inc.; Carlsbad, CA  
Title: Vice President Product Management  
Summary: Directed the entire product management team and system architecture for Entriq's products and services. Products encompassed mobile and broadband pay media applications (specializing in video), digital rights management (DRM) and security solutions, e-commerce and m-commerce systems as well as ad management and delivery solutions for both broadband and mobile media services. Provided network and protocol analysis, market analysis, evaluation of third-party software and services, all vendor contract negotiations, RFP responses and overall administration of the entire product line. Directed and managed the technical writing department producing all user documentation associated with the products. Was nominated for a National Television Arts and Sciences Emmy Award for Outstanding Achievement in Advanced Media Technology for unique mobile technology designed, developed and commercially deployed as part of Entriq's solution.

From: February 2002  
To: November 2003  
Organization: m-Qube, Inc. (acquired by Verisign); Boston, MA  
Title: Founder, Vice President Product Management and Carrier Marketing  
Summary: Directed entire product management and carrier marketing teams, member of the executive management team, and one of the founders. Provided all product management, system engineering, and product strategy activities for all business conducted with the wireless industry and carriers. Developed the market strategy and wireless network architecture for m-Qube's mobile marketing service, a value-added service offering mobile marketing solutions to wireless carriers using short message services (SMS) for GSM and CDMA networks. The service architecture enabled branded companies to deploy promotional marketing and messaging campaign dialogs with mobile subscribers

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via SMS. The network architecture required definition and design of all aspects of the overall network including SMS technology, interconnectivity to the wireless carriers, signaling, traffic management, market requirements for features and services, and network equipment specifications and OA&M.

From: April 2001  
To: February 2002  
Organization: Bitfone Corporation; Mountain View, CA  
Title: Vice President Product Management and Marketing  
Summary: Developed the entire product management team and all of the company's product definitions, strategies, and positioning. Provided market and product requirements, market research, competitive analysis, product strategy, and sales strategy. Bitfone's products included the iBroker, a mobile Internet technology infrastructure platform to enhance WAP, MMS, mobile e-mail and wireless messaging. Directed the mProve product (obtained via merger with Digital Transit, Inc.) providing over-the-air firmware and software update technology to mobile devices.

From: November 2000  
To: April 2001  
Organization: Openwave Systems (via merger of Phone.com and Software.com); Redwood City, CA  
Title: Executive Director Emerging Technologies  
Summary: Developed new 3G technologies and provided market and product plans for those technologies for the entire product line. Defined the 3GPP Multimedia Messaging Service (MMS), collecting market requirements from customers, developing corporate strategy for MMS, and preparing the organization for additional development of the product. In addition, taught wireless technology classes to the different departments at Openwave and educated them on wireless service provider strategies and network technologies.

From: March 2000  
To: November 2000  
Organization: @Mobile and Software.com (via acquisition); Santa Barbara, CA  
Title: Director Wireless Product Management  
Summary: Directed the product management team for the wireless internet infrastructure products. Provided the overall market and product strategy, and requirements, for Software.com's wireless e-mail, short message service, instant messaging, and unified messaging products. Provided the overall revenue plan generated from these products based on detailed product plans and internal organizational planning. Much of his time was spent working with the executive management team and the sales directors on corporate market strategy.

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From: December 1999  
To: March 2000  
Organization: FreeSpace Communications, Inc.; Palo Alto, CA  
Title: Consulting Network Systems Engineer  
Summary: Designed the backbone network architecture for a new broadband fixed wireless data network. This new architecture incorporated DSL as the backbone network technology. The network architecture required definition and design of all aspects of the overall network plan including DSL technology, IP technology, ATM technology, interconnectivity to the PSTN, operations signaling, traffic engineering, market requirements for network features and services, network equipment specifications and OA&M.

From: April 1992  
To: December 1999  
Organization: Synacom Technology, Inc.; San Jose, CA  
Title: Executive Director Product Marketing and Management  
1998 – 1999: Directed the entire product management and marketing department of Synacom Technology, including market research and planning, product management and market communications. Lead the entire design, definition, and product direction of all aspects of Synacom's products.

1997 – 1998: Director Systems Engineering  
Directed the functional and requirements specifications for all Synacom's products as well as the detailed test plans used for alpha system testing of those products. Directed the technical writing department producing all of the user documentation associated with all of the products. Provided the primary sales engineering support for sales and marketing and was involved in nearly every aspect of the product lifecycle.

1994 – 1999: Director Consulting Services and Principal Engineer  
Directed and provided all technical consulting projects performed by the company. These projects included wireless network architecture and design for both IS-41 and GSM networks for dozens of client companies (carriers and equipment manufacturers). In this role, continued as a member of both the ANSI/TIA TR45.2 Subcommittee for cellular radio intersystem operations standards and the ANSI/TIA TR46 Committee for 1900 MHz GSM PCS standards. Major contributor to TR46 in the area of GSM-to-IS-41 network interworking. Authored, edited, and published TIA standard specification IS-93 for cellular network interconnections to the PSTN and ISDN.

1992 – 1994: Principal Engineer  
Engineering consultant for McCaw Cellular, AT&T Wireless, AirTouch Cellular, AirTouch Satellite Services, Globalstar, Nokia, MCI, Sprint PCS, XYPoint, NextWave, NewNet American Personal Communications, CTIA and several other national and international wireless telecommunications companies.

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**Curriculum Vitae**

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Wrote wireless network design and analysis papers including HLR specifications, Authentication Center specifications, PCS network design, short message service (SMS) design, intelligent network applications of wireless technology and in-house expert in signaling protocols. Extensive experience with Signaling System No. 7, including both protocol implementation and design. Authored the Standard Requirements Document for the SS7-based A-interface between the base station and MSC used throughout the TIA. Involved in the design of the Bellcore WACS/PACS technology, digital cellular network service and feature descriptions, SCPs and HLRs. Extensive experience developing the architecture and design of distributed intelligent networks including, SS7, cellular, PCS, AIN and WIN networks. Key engineering member of the original Cellular Digital Packet Data (CDPD) architecture and design team. Designed the CDPD air interface protocol emulator developed and marketed by AirLink Communications, Inc.

From: December 1990  
To: April 1992  
Organization: AT&T Bell Laboratories; Whippany, NJ  
Title: Consulting Member of the Technical Staff  
Summary: Evaluated wireless technology services for the Wireless Systems Architecture group. System engineer on the design of the Global System for Mobile (GSM) communication architecture and a software engineer developing the base station controller (BSC) for GSM. Planned, coordinated, and designed testing requirements for the SS7 protocol software for the GSM A-interface between the BSC, MSC and operations and maintenance center (OMC). Developed high-level and detailed design specifications to coordinate the protocol testing between two remote laboratories. Designed and developed the traffic analysis and traffic engineering software for call traffic for the BSC. Specifically designed and developed the dynamic traffic overload control subsystem for the BSC. Presentations were given to technical staffs at multiple Bell Laboratories facilities supporting this work.

From: May 1987  
To: December 1990  
Organization: DGM&S, Inc.; Mt. Laurel, NJ  
Title: Senior Staff Consultant  
Summary: Designed, developed, and coordinated advanced intelligent network applications platform for a service control point (SCP). Several years as a consulting software engineer for Siemens AG, developing and testing SS7 and call control software for the EWSD digital switching system for international as well as U.S. national network implementations. This work involved extensive travel to both Frankfurt and Munich, Germany for software system design and testing. Provided concept, design and technical marketing solutions for proprietary enabling technology software products for SS7 and ISDN.

From: May 1986

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To: May 1987  
Organization: ADP, Inc.; Mt. Laurel, NJ  
Title: Senior Software Engineer and Analyst  
Summary: Designed and developed data communications and real time database application software for a host data center that provided real time financial information to large brokerage houses. Data communication protocol expertise in HDLC, RS-232 and IBM BiSync.

From: June 1984  
To: May 1986  
Organization: C3, Inc.; Cape May, NJ  
Title: Consulting Systems Analyst and Software Engineer  
Summary: Civilian consulting systems analyst and engineer to the U.S. Coast Guard Electronics Engineering Center (EECEN) for C3, Inc. Designed and developed sophisticated database software for shipboard use including inventory and law enforcement applications. The work included the follow-through of the entire project lifecycle including writing of requirements, functional, design, and program specifications, coding, debugging, alpha and beta testing, release, shipboard installation, and continuing technical support of the product. Received a personal commendation from Admiral W.F. Merlin, Chief, Office of Command, Control and Communications, for successful efforts on these projects.

### Professional Affiliations, Achievements & Awards

- Personal commendation from Admiral W.F. Merlin, Chief, Office of Command, Control and Communications, USCG (1986)
- Nominated, Technology and Engineering Emmy Award for Outstanding Achievement in Advanced Media Technology, 2006

### Patents, Publications & Notable Citations

#### Issued Patents

<u>Patent</u>	<u>Date</u>	<u>Description</u>
US 10,776,791	9/15/2020	System and Method for Identity Protection Using Mobile Device Signaling Network Derived Location Pattern Recognition
US 10,669,130	6/2/2020	System and Method for Automated Analysis Comparing a Wireless Device Location with Another Geographic Location
US 10,580,009	3/3/2020	Mobile Communications Message Verification of Financial Transactions



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**Curriculum Vitae**

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US 10,455,419	10/22/2019	Systems and Method for Mobile Identity Protection for Online User Authentication
US 10,440,572	10/8/2019	Systems and Methods for Authenticating a User of a Computer Application, Network, or Device Using a Wireless Device
US 10,354,253	7/16/2019	System and Method for Identity Protection Using Mobile Device Signaling Network Derived Location Pattern Recognition
US 10,117,291	10/30/2018	Wireless Messaging Address System and Method
US 9,848,298	12/19/2017	System and Method for Automated Analysis Comparing a Wireless Device Location with Another Geographic Location
US 9,838,872	12/5/2017	Systems and Method for Mobile Identity Protection for Online User Authentication
US 9,818,121	11/14/2017	Mobile Communications Message Verification of Financial Transactions
US 9,801,063	10/24/2017	Systems and Methods for Authenticating a User of a Computer Application, Network, or Device Using a Wireless Device
US 9,736,662	8/15/2017	Mobile Messaging Short Code Translation and Routing System and Method
US 9,679,312	6/13/2017	System and Method to Initiate a Mobile Data Communication Utilizing a Trigger System
US 9,603,023	3/21/2017	System and Method for Identity Protection Using Mobile Device Signaling Network Derived Location Pattern Recognition
US 9,456,348	9/27/2016	System and Method for Automated Analysis Comparing a Wireless Device Location with Another Geographic Location
US 9,432,845	8/30/2016	System and Method for Automated Analysis Comparing a Wireless Device Location with Another Geographic Location
US 9,420,448	8/16/2016	System and Method for Determining and Delivering Appropriate Multimedia Content to Data Communication Devices
US 9,313,628	4/12/2016	System and Method for Determining and Delivering Appropriate Multimedia Content to Data Communication Devices
US 9,185,123	11/10/2015	Systems and Method for Mobile Identity Protection for Online User Authentication
US 9,154,952	10/6/2015	Systems and Methods for Authenticating a User of a Computer Application, Network, or Device Using a Wireless Device
US 9,092,803	7/28/2015	System and Method to Initiate a Mobile Data Communication Utilizing a Trigger System
US 8,954,102	2/10/2015	System and Method for Determining and Delivering Appropriate Multimedia Content to Data Communication Devices
US 8,938,215	1/20/2015	System and Method to Initiate a Mobile Data Communication Utilizing a Trigger System
US 8,923,902	12/30/2014	Mobile Messaging Short Code Translation and Routing System and Method
US 8,839,394	9/16/2014	Systems and Methods for Authenticating a User of a Computer Application, Network, or Device Using a Wireless Device

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US 8,831,564	9/9/2014	System and Method for Mobile Identity Protection Using Mobile Device Signaling Network Derived Location Pattern Recognition
US 8,819,141	8/26/2014	Centralized Mobile and Wireless Messaging Opt-out Registry System and Method
US 8,761,732	6/24/2014	System and Method to Initiate a Mobile Data Communication Utilizing a Trigger System
US 8,670,753	3/11/2014	System and Method for Determining and Delivering Appropriate Multimedia Content to Data Communication Devices
Israel 200949	1/10/2014	System and Method for Automated Analysis Comparing a Wireless Device Location with Another Geographic Location
Mexico 308720 B	12/4/2013	Sistema y Metodo para el Analisis Automatizado que Compara una Ubicacion del Dispositivo Inalambrico con Otra Ubicacion Geografica
US 8,588,748	11/19/2013	System and Method for Mobile Identity Protection of a User of Multiple Computer Applications, Networks or Devices
US 8,437,784	5/7/2013	System and Method to Initiate a Mobile Data Communication Utilizing a Trigger System
US 8,374,634	2/12/2013	System and Method for Automated Analysis Comparing a Wireless Device Location with Another Geographic Location
US 8,280,348	10/2/2012	System and Method for Mobile Identity Protection Using Mobile Device Signaling Network Derived Location Pattern Recognition
US 8,155,677	4/10/2012	Mobile Messaging Short Code Translation and Routing System and Method
New Zealand 580499	8/31/2012	System and Method for Automated Analysis Comparing a Wireless Device Location with Another Geographic Location
US 8,131,262	3/6/2010	System and Method to Initiate a Mobile Data Communication Utilizing a Trigger System
US 8,116,731	2/14/2012	System and Method for Mobile Identity Protection of a User of Multiple Computer Applications, Networks or Devices
Australia 2008/115299	2/9/2012	System and Method for Automated Analysis Comparing a Wireless Device Location with Another Geographic Location
S. Africa 2009/06947	1/26/2011	System and Method for Automated Analysis Comparing a Wireless Device Location with Another Geographic Location
US 7,792,518	9/7/2010	System and Method to Initiate a Mobile Data Communication Utilizing a Trigger System
US 7,403,788	7/22/2008	System and Method to Initiate a Mobile Data Communication Utilizing a Trigger System
US 6,128,389	10/3/2000	Authentication Key Management System and Method
US 5,970,144	10/19/1999	Secure Authentication-Key Management System and Method for Mobile Communications
US 5,850,445	12/15/1998	Authentication Key Management System and Method
US 5,799,084	8/25/1998	System and Method for Authenticating Cellular Telephonic Communication

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## Publications

1. What Workers Want from Wireless by Randall A. Snyder; April 15, 2004. America's Network, Advanstar Communications, Santa Ana, California USA.
2. Snyder, Randall A. and Gallagher, Michael D. Wireless Telecommunications Networking with ANSI-41 Second Edition; McGraw-Hill, New York, NY USA; © Copyright 2001 Randall A. Snyder and Michael D. Gallagher. *Foreword by Tom Wheeler, former Chairman, Federal Communications Commission.*
3. Forecasting SS7 Traffic by Randall A. Snyder; November 1, 2000. Wireless Review, Volume 17, Number 21, Intertec Publishing, Overland Park, KS USA.
4. Gallagher, Michael D. and Snyder, Randall A. Mobile Telecommunications Networking with IS-41; McGraw-Hill, New York, NY USA; © Copyright 1997 Michael D. Gallagher and Randall A. Snyder.
5. IS-41/GSM Interoperability by Randy Snyder; December, 1995, Cellular Networking Perspectives, Cellular Networking Perspectives, LTD, Calgary, Alberta, Canada.

## Notable Citations

1. Personal Letter of Commendation from Admiral W.F. Merlin, Chief, Office of Command, Control and Communications, USCG (1986).
2. Method and Apparatus for Routing Short Messages, US Patent #6308075, Issued October 23, 2001.
3. Mediation Software for Delivery of Interactive Mobile Messaging and Personalized Content to Mobile Devices, Patent Application # 20020120779, August 29, 2002.
4. Automatic In-Line Messaging System, US Patent #6718178, Issued April 6, 2004.
5. Method and System for Wireless Instant Messaging, US Patent #7058036, Issued June 6, 2006.
6. Nominated for a National Television Arts Emmy Award for Outstanding Achievement in Advanced Media Technology, 2006.
7. United States Court of Appeals for the Ninth Circuit. Satterfield v. Simon & Schuster, Inc. No. 07-16356, D.C. No. CV-06-02893-CW Opinion. Appeal from the United States District Court for the Northern District of California. Opinion by N.R. Smith, Circuit Judge. Filed June 19, 2009.