

# **James T. Geier**

## **CONTACT INFORMATION**

**Name:** James T. Geier

**Title:** Principal Consultant

**Company:** Wireless-Nets, Ltd.

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## **PROFILE**

James Geier has 40 years of experience in the communications industry designing, analyzing, and implementing communications systems, wireless networks, and mobile wireless devices. He has authored over a dozen books on mobile and wireless topics, including Designing and Deploying 802.11 Wireless Networks (Cisco Press), Implementing 802.1X Security Solutions (Wiley), Wireless Networking Handbook (New Riders) and Network Re-engineering (McGraw-Hill). He had been an active participant within standards organizations, such as the IEEE 802.11 Working Group and the Wi-Fi Alliance. He has served as Chairman of the IEEE Computer Society, Dayton Section, and various conferences dealing with wireless networking.

## **PROFESSIONAL EXPERIENCE**

### **Principal Consultant and Founder – *Wireless-Nets, Ltd. (Apr 2000 - present)***

- Designs mobile devices and implements corresponding software / firmware.
- Designs and integrates Wi-Fi, Bluetooth, cellular, Ethernet and USB transceivers into mobile devices, such as smart phones, hospital patient monitors, cable T.V. boxes, and bar code scanners.
- Designs large-scale wireless networks for municipalities, hospitals, airports, and manufacturing facilities for supporting voice, video and data applications.

### **President, CEO, and Cofounder – *Health Grade Networks LLC. (Aug 2014 – Dec 2015)***

- Provided strategic direction and management of the company for implementing wireless network solutions.

### **Product Engineer / Manager - *Monarch Marking Systems (Aug 1996 – Mar 2000)***

- Designed and implemented RF radios for Monarch's bar code scanners and printers.
- Integrated Ethernet and USB transceivers into tabletop printers.
- Designed and implemented wireless middleware software for improving performance between mobile wireless devices and application servers.
- Designed and implemented wireless network infrastructures for wireless bar code scanners and portable printers used in retail and manufacturing applications.

### **Senior Systems Engineer - *TASC, Inc. (Mar 1994 to Jul 1996)***

- Designed and implemented an enterprise-wide Ethernet / IEEE 802.3 and wireless network for Dayton Power and Light to support the migration from mainframe to client/server systems.
- Designed an information system architecture that supports internal and external communications for the U.S. Navy's NSSN attack submarine.
- Analyzed requirements for hardware, software, and support of the Joint Logistics Systems Center (JLSC) Materiel Management Standard System (MMSS) for the combined U.S. militaries.

**Senior Systems Engineer - Adroit Systems, Inc. (Aug 1992 to Feb 1994)**

- Researched and analyzed emerging wireless network technologies as part of the Department of Defense Airborne Reconnaissance Data Link Architecture (ARDA) study, supporting communications for airborne systems.
- Designed a software tool that aids network engineers in planning, upgrading and maintaining shipboard computer networks - based on a Small Business Innovative Research (SBIR) government grant obtained from the U.S. Navy.

**Systems Design Engineer - Information Systems Center, Captain U.S. Air Force (Sep 1990 – Jun 1992)**

- Evaluated the effectiveness of wireless LAN technology for use in mobile and portable military environments.
- Represented the Air Force as part of the IEEE 802.11 Wireless LAN standards development.
- Designed and implemented large-scale Ethernet / IEEE 802.3 LANs and WANs for various government organizations.

**Communications Test Engineer - AFCC Operational Test and Evaluation Center, Lieutenant U.S. Air Force (Sep 1986 - May 1989)**

- Performed analog, digital, and protocol tests on various government wireless computer networks and long-haul communications systems.
- Developed approaches and methods for testing computer networks.

**Radar Technician - 75th TCF, U.S. Air Force (Dec 1977 - Jun 1983)**

- Performed acceptance testing of newly designed radar systems.
- Maintained automatic tracking radar systems in support of tactical Air Force operations worldwide.

**EDUCATION**

**M.S., Electrical Engineering**, *Air Force Institute of Technology (1990)* – thesis involved designing and implementing a wireless mesh network for the U.S. Department of Defense.

**B.S., Electrical Engineering**, *California State University (1985)*.

**MILITARY EXPERIENCE**

U.S. Air Force, Dec 1977 – Jun 1992 (Commissioned Officer Mar 1986 – Jun 1992).

**BOOK PUBLICATIONS**

- *Designing and Deploying 802.11 Wireless LANs (2<sup>nd</sup> Edition)*, Cisco Press, 2015.
- *Designing and Deploying 802.11n Wireless LANs*, Cisco Press, 2010.
- *Implementing 802.1x Security Solutions*, Wiley, 2008.
- *Deploying Voice over Wireless LANs*, Cisco Press, 2007.
- *Computer Security*, Wiley, 2007.
- *Computer Transfer and Backup*, Wiley, 2007.
- *CCIE Routing and Switching – Official Exam Certification Guide, 2nd Edition*, Cisco Press, 2006.
- *Wireless Networks – 5-minute Fixes*, Wiley, 2006.
- *PCs – 5-minute Fixes*, Wiley, 2006.
- *Wireless Networks – First Step*, Cisco Press, 2005 (translated to Chinese, French, Hungarian, Italian, Korean, Polish, Portuguese, and Romanian).
- *Certified Wireless Analysis Professional - Official Study Guide*, McGraw-Hill, 2004.

- *Wireless LANs, 2nd Edition*, SAMs, 2001.
- *Wireless LANs*, Macmillan Technical Publishing, 1999.
- *Wireless Networking Handbook*, Macmillan (New Riders) Publishing, 1996.
- *Network Re-Engineering*, McGraw-Hill, 1996.

## **INDUSTRY AFFILIATIONS**

### **Chairman, IEEE Computer Society - Dayton Section:**

- Managed the 900-member organization and established a continuing education program.

### **Chairman, IEEE International Conference on Wireless LAN Implementation:**

- Managed all aspects of the conference from 5/91 to 12/92.

### **Member, Wi-Fi Alliance**

- Voting member of the Wireless ISP for Roaming (WISPr) committee.

### **IEEE 802.11 Wireless LAN Working Group**

- Represented interests of the Department of Defense for dealing with applications and frequency allocations.

## **TEACHING EXPERIENCE**

### **U.S. Naval Post Graduate School**

- Developed and regularly instructed a course on wireless network design and security to students and faculty.

### **Wright State University**

- Periodically instructed graduate courses on computer communications.

### **USAF Test and Evaluation School**

- Developed and instructed a 240 hour training course on wireless system test and evaluation.

### **Conferences**

- Regularly gives presentations at international conferences, including Supercomm (Asia), Scantech (Germany), and IBC (England).

### **Infocomm Solutions**

- Developed and instructed workshops in India, Singapore and Malaysia on wireless network implementation.

### **Technology Training Corporation (TTC)**

- Developed and instructed international training courses in Mexico and South America on wireless networking and network re-engineering.

### **Educational Services Institute**

- Developed and instructed courses on software project management, software testing, system integration and network re-engineering as part of the Project Management Institute (PMI) Project Management Professional (PMP) certification program.

### **Onsite Training**

- Regularly instructs workshops on wireless network design and deployment for product developers, system integrators, hospitals, and enterprises worldwide.

## **TESTIFYING EXPERIENCE**

Cases where James Geier has testified at depositions and trials:

### **Ericsson v. Apple**

Law firm: Fish & Richardson

Expert on behalf of the defendant (Apple) during 2022 regarding patent litigation within the International Trade Commission. Analyzed patents, products, prior art and other case documents associated with wireless roaming algorithms; analyzed product firmware; wrote expert reports regarding patent invalidity and non-infringement; testified at deposition; testified at the International Trade Commission in 2022 (Judge Elliot).

### **IOENGINE v. Ingenico, Inc.**

Law firm: Sunstein Kann Murphy & Timbers

Expert on behalf of Ingenico during 2021-2022 regarding patent litigation within the U.S. District Court – Delaware. Analyzed patents, products, prior art and other case documents associated with wireless credit card processing systems; analyzed product firmware; wrote expert reports regarding patent non-infringement and invalidity; testified at deposition; testified at a jury trial within the District Court of Delaware in 2022 (Judge Bryson).

### **AIG Specialty Insurance Company v. Pegatron Corporation**

Law Firm: Gordon Rees

Expert on behalf of the plaintiff (AIG Specialty Insurance Company) during 2020-2021 regarding Wi-Fi / cellular interference issues within the Northern District of Georgia. Analyzed test reports and case documents; wrote a declaration; testified at deposition.

### **NTT Corporation, et al. v. MediaTek, Acer, and Texas Instruments**

Law Firm: Dickinson Wright

Expert on behalf of the plaintiff (NTT Corporation) during 2020-2021 regarding claim construction within district court of the Western District of Texas. Analyzed patents and case documents related to wireless communications; wrote a declaration regarding claim construction; testified at deposition.

### **Bertram Communications, LLC v. Simon Westlake, et al.**

Law Firm: Kilpatrick Townsend

Expert on behalf of the plaintiff (Bertram Communications) during 2019-2020 regarding trade secret litigation within the State of Wisconsin, Circuit Court, Sheboygan County. Analyzed wireless designs and other case documents associated with wireless ISP systems in relation to trade secret analysis; wrote expert reports regarding associated analysis; testified at deposition.

### **Ingenico, Inc.**

Law firm: Sunstein Kann Murphy & Timbers

Expert on behalf of Ingenico regarding an Inter Partes Review (IPR) with the USPTO Patent Trial and Appeal Board during 2018-2020. Analyzed patents, prior art and other case documents associated with wireless credit card processing systems; wrote declarations regarding patent invalidity; testified at depositions.

**Next Caller, Inc.**

Law firm: McDermott Will & Emery

Expert on behalf of Next Caller regarding an Inter Partes Review (IPR) with the USPTO Patent Trial and Appeal Board during 2018-2019. Analyzed patents, prior art and other case documents associated with caller profile systems; wrote a declaration regarding patent validity; testified at deposition.

**Samsung, Inc.**

Law firm: Kirkland & Ellis

Expert on behalf of Samsung regarding an Inter Partes Review (IPR) with the USPTO Patent Trial and Appeal Board during 2018-2019. Analyzed patents, prior art and other case documents associated with battery charging systems for mobile devices; wrote declarations regarding patent invalidity; testified at deposition.

**Foxconn Technology Group**

Law firm: McDermott Will & Emery

Expert on behalf of Foxconn regarding an Inter Partes Review (IPR) within the USPTO Patent Trial and Appeal Board during 2018. Analyzed patents, prior art and other case documents associated with short circuit protection for reversible connectors; wrote a declaration regarding patent invalidity; testified at deposition.

**ZTE, Inc.**

Law firm: McDermott Will & Emery

Expert on behalf of ZTE, Inc. regarding an Inter Partes Review (IPR) within the USPTO Patent Trial and Appeal Board during 2018. Analyzed patents, prior art and other case documents associated with supplying a power source to mobile devices over standardized ports; wrote a declaration regarding patent invalidity; testified at deposition.

**Certain Wireless Headsets**

Law firm: Haynes Boone

Expert on behalf of defendants (BlueAnt, Creative, GN Netcom, Jawbone and Sony) during 2015-2018 regarding patent litigation within the International Trade Commission (ITC). Analyzed patents and other case documents associated with wireless audio headsets; wrote expert reports regarding patent written description and inception date; testified at deposition.

**Camsoft Data Systems, Inc. v. Southern Electronics Supply and Active Solutions, LLC**

Law firm: Melancon & Rimes

Expert on behalf of the plaintiff (Camsoft Data Systems) during 2014-2018 regarding trade secret litigation within the 19<sup>th</sup> Judicial District Court – State of Louisiana. Analyzed wireless designs and other case documents associated with wireless video surveillance systems in relation to trade secret analysis; wrote expert reports regarding associated analysis; testified at deposition.

**United States of America v. IBM Corporation**

Law firm: Jones Day

Expert on behalf of the defendant (IBM Corporation) during 2017 regarding litigation within the U.S. District Court, Northern District of Illinois - Eastern Division. Analyzed designs, contracts, and other case documents associated with wireless networks and integration methods; wrote an expert report regarding associated analysis; testified at deposition.

### **Emerson Electric Co.**

Law firm: Ropes & Gray

Expert on behalf of Emerson Electric Co. regarding an Inter Partes Reviews (IPRs) within the USPTO Patent Trial and Appeal Board during 2016-2017. Analyzed patents, prior art and other case documents associated with optimum route determination over computer networks; wrote declarations regarding patent invalidity; testified at multiple depositions.

### **Emerson Electric Co.**

Law firm: Ropes & Gray

Expert on behalf of Emerson Electric Co. regarding a Covered Business Method Patent Review (CBMPR) within the USPTO Patent Trial and Appeal Board during 2016-2017. Analyzed patents, prior art and other case documents associated with systems for communicating information; wrote declarations regarding patent invalidity; testified at multiple depositions.

### **Chrimar v. Aerohive**

Law firm: Wilson, Sonsini, Goodrich & Rosati

Expert on behalf of the defendant (Aerohive) during 2016-2017 regarding patent litigation within the U.S. District Court – Eastern Division of Texas (Judge Gilstrap). Analyzed patents, products, and other case documents associated with power-over-Ethernet technologies; performed testing of power-over-Ethernet products; wrote an expert report regarding patent non-infringement; testified at deposition; testified at a jury trial within the District Court of Eastern Texas in 2017 (Judge Gilstrap).

### **Intellectual Ventures v. AT&T**

Law firm: Dechert

Expert on behalf of the plaintiff (Intellectual Ventures) during 2014-2017 regarding patent litigation within the U.S. District Court - Delaware. Analyzed patents, prior art and other case documents associated with IEEE 802.11 encryption and quality of service (QoS) technologies; performed testing and protocol analysis of Wi-Fi products; wrote expert reports regarding patent infringement and validity; testified at deposition.

### **Chrimar v. AMX**

Law firm: McDermott, Will & Emery

Expert on behalf of the defendant (AMX) during 2016 regarding patent litigation within the U.S. District Court – Eastern Division of Texas. Analyzed patents, products, prior art and other case documents associated with power-over-Ethernet technologies; performed testing of power-over-Ethernet products; wrote expert reports regarding patent non-infringement and invalidity; testified at deposition.

### **Universal Remote**

Law firm: Ostrolenk Faber

Expert on behalf of Universal Remote regarding an Inter Partes Review (IPR) within the USPTO Patent Trial and Appeal Board filed during 2015. Analyzed patents, prior art and other case documents associated with TV remote control technologies; wrote a declaration regarding patent invalidity; testified at deposition.

**Skyhook v. Google**

Law firm: Tensegrity

Expert on behalf of the plaintiff (Skyhook) during 2012-2015 regarding patent litigation within the U.S. District Court - Boston. Analyzed patents, software, and other case documents associated with Wi-Fi-based location systems; performed in-depth review and analysis of associated software; wrote an expert report regarding patent infringement; testified at deposition.

**MTEL v. UPS**

Law firm: Reed & Scardino

Expert on behalf of the plaintiff (MTEL) during 2014 regarding patent litigation within the U.S. District Court – Atlanta. Analyzed patents, prior art and other case documents associated with mail delivery notifications; wrote an expert report regarding patent validity; testified at deposition.

**Motorola v. Microsoft**

Law firm: Sidley Austin

Expert on behalf of the defendant (Microsoft) during 2012 regarding patent litigation within the International Trade Commission. Analyzed patents, products, prior art and other case documents associated with data addressing and data update mechanisms; wrote expert reports on patent invalidity and indirect non-infringement; testified at deposition; testified at the International Trade Commission in 2012 (Judge Shaw).

**Motorola v. Microsoft**

Law firm: Sidley Austin

Expert on behalf of the defendant (Microsoft) during 2011 regarding patent litigation within the International Trade Commission. Analyzed patents, products, prior art and other case documents associated with security and encryption protocols; analyzed product firmware; wrote expert reports regarding patent invalidity and non-infringement; testified at deposition; testified at the International Trade Commission in 2011 (Judge Shaw).

**Motorola v. Microsoft**

Law firm: Sidley Austin

Expert on behalf of the defendant (Microsoft) during 2011 regarding patent litigation within the U.S. District Court – Southern Florida. Analyzed patents, products, prior art and other case documents associated with application registry and data update technologies; wrote expert reports regarding patent invalidity and non-infringement; testified at deposition.

**Autocell v. Cisco Systems**

Law Firm: Hanify & King

Expert on behalf of the plaintiff (Autocell) during 2009-2011 regarding patent litigation within the U.S. District Court - Delaware. Analyzed patents, products, prior art and other case documents associated with transmit power control of 802.11 radios and access points; performed laboratory and field testing of associated products; analyzed product firmware; wrote expert reports regarding patent infringement and validity; testified at deposition.

## **Truckstop.Net v. Sprint Communications**

Law Firm: Holland & Hart

Expert on behalf of the plaintiff (Truckstop.Net) during 2004-2010 regarding contract litigation within the U.S. District Court - Idaho. Analyzed case documents including wireless network designs and contracts associated with wireless networks installed at truck stops; performed in-depth field testing and analysis of wireless signal coverage and performance at truck stops located throughout the U.S.; wrote expert reports regarding test results and review of case documents; testified at deposition.