

# **James T. Geier**

## **CONTACT INFORMATION**

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## **PROFILE**

James Geier is the principal consultant and founder of Wireless-Nets, Ltd. His 25 years of experience includes the analysis, design, implementation, installation, and support of numerous wireless network solutions for enterprises, hospitals, universities, airports, warehouses, and product manufacturers worldwide. James is the author of over a dozen books, including *Implementing 802.1X Security Solutions* (Wiley), *Deploying Voice over Wireless LANs* (Cisco Press), *Wireless LANs* (SAMS), *Wireless Networks* (Cisco Press), *Wireless Networking Handbook* (Macmillan), and *Network Reengineering* (McGraw-Hill). He is the author of numerous tutorials and other publications and has developed and instructed dozens of training courses on wireless networking topics. James has been active within the Wi-Fi Alliance, responsible for certifying interoperability of 802.11 (Wi-Fi) wireless LANs. He has also been active with the IEEE 802.11 Working Group, responsible for developing international standards for wireless LANs. He served as Chairman of the IEEE Computer Society, Dayton Section, and Chairman of the IEEE International Conference on Wireless LAN Implementation.

## **PROFESSIONAL EXPERIENCE**

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

- Provides technical consulting services to municipalities and companies worldwide developing and deploying wireless network and cellular solutions.
- Integrates OEM wireless modules into mobile devices, such as hospital patient monitors, data collectors and robots, for product developers.
- Designs large-scale wireless LANs and performs signal coverage and security assessments for enterprises and municipalities.
- Clients include Alcatel, Broadcom, ExxonMobil, Fujitsu, Intel, New York Stock Exchange, Nokia, Scientific Atlanta, Texas Instruments, U.S. Postal Service, VeriSign, Xerox, and others.

### **Director, Wireless System Solutions - *Monarch Marking Systems (Aug 1996 – Mar 2000)***

- Managed and provided technical direction for the development, implementation, installation and operational support of wireless network solutions for hundreds of healthcare, retail, and manufacturing customers worldwide.
- Developed comprehensive marketing plans describing market trends, product definitions, pricing, distribution channels, and sales and advertising methods for wireless solutions and products.

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

- Developed and implemented an enterprise-wide computer 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 Engineer - *Adroit Systems, Inc. (Aug 1992 to Feb 1994)***

- Researched and analyzed emerging network technologies as part of the Department of Defense Airborne Reconnaissance Data Link Architecture (ARDA) study, supporting communications for airborne systems.

- Developed 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.

**Operational Support Manager** – *Information Systems Center, U.S. Air Force (Feb 1992 - Jul 1992)*

- Managed operational support for Wright-Patterson AFB's 15,000-user wide area network, consisting of numerous LANs and worldwide network connections.
- Developed operational support guidelines and practices for field service, network security and network monitoring.

**Systems Engineering Manager** - *Information Systems Center, U.S. Air Force (May 1991 - Jan 1992)*

- Managed and provided technical direction for the migration of 15,000 users from a centralized mainframe environment to distributed PC-LAN client server system.
- Represented the Air Force as part of the IEEE 802.11 Wireless LAN standards development.

**Systems Design Engineer** - *Information Systems Center, U.S. Air Force (Sep 1990 - Apr 1991)*

- Designed and implemented large-scale LANs and WANs for various government organizations.
- Evaluated the effectiveness of wireless LAN technology for use in mobile and portable military office environments.

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

- Performed analog, digital, and protocol tests on various government wireless computer networks.
- Developed testing approaches and methods.

**Communications Systems Engineer** - *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*

**B.S., Electrical Engineering**, *California State University*

**M.B.A.**, *University of Phoenix*

## **BOOK PUBLICATIONS**

- *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 planning from 5/91 to 12/92.

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

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

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

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

## **TEACHING EXPERIENCE**

### **Conferences**

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

### **Onsite Training**

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

### **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.

### **Advanced Services Institute**

- Developed and instructed workshops in Trinidad on implementing and securing wireless networks.

### **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.

### **U.S. Navel 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.

## **LITIGATION RELATED EXPERIENCE**

- Regularly serves as a wireless expert during legal proceedings.
- Has been disclosed as a technical expert involving RF signal coverage issues.
- Served as consultant for several companies in pre-litigation patent studies in the U.S. and Japan.
- Performed prior art research and product testing on alleged infringing products.