

Timothy B. Totten

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Manager of Enterprise Wireless Technologies • Wireless Regulatory Affairs Manager

Career Profile

Seventeen-year background in the management of wireless technologies, wireless regulatory affairs and related business functions at UPS.

Broad experience managing highly productive teams responsible for all phases of the technology life cycle—strategic planning, system design, implementation and support.

Elected to top leadership positions in key industry organizations, including Chairman of the Enterprise Wireless Alliance and Chairman of the Aeronautical Frequency Committee.

Expert in U.S. and international wireless regulatory strategy and compliance matters, specializing in aeronautical radio, land mobile radio and unlicensed wireless devices.

Established UPS Spectrum Management Committee, providing an enterprise-wide approach to licensing, coexistence and device management, and management of wireless regulatory issues.

Founded innovative JetComm business unit, selling excess communications capacity and end-to-end services to other airlines; achieved consistent revenue and earnings growth while simultaneously reducing costs by leveraging existing technical assets and resources and focusing on customers' needs.

Employment History

SouthGain Enterprises, LLC (Louisville, Kentucky, U.S.A. - January, 2007 to present)
President. Manage all aspects of this small startup business engaged in import and online retail activities.

UPS - United Parcel Service (Louisville, Kentucky, U.S.A. - January, 1990 to present)
Wireless Manager / Lead Telecom Engineer (August, 1998 to present)
Radio Systems Supervisor (January, 1990 to July, 1998)

Manage key wireless systems across the enterprise; represent the wireless regulatory interests of UPS at the FCC, FAA, U.S. Congress, ITU, EWA, IATA, ATA, ARINC, ASRI, RTCA, AEEC, DoT, ICAO, Ad Hoc Telecommunications Users Committee, USCIB, ICC and other forums; established and chair the UPS Spectrum Management Committee; provide expert technical consultation to UPS Strategic Enterprise Fund, Advanced Technology Group, Communications, Navigation and Surveillance Working Group; Transportation Technology Group, Aircraft Engineering and other business units; blend leadership, business acumen and technical skills to produce bottom-line results.

Speed Scientific School, University of Louisville (Louisville, Kentucky, U.S.A. - 1988-1989)
Graduate Teaching Assistant for ETEC-250 Communication Electronics and EE-551 Communication Lab; *Grader* for EE-550 Communication and Modulation.

Gould Defense Systems, Ocean Systems Division (Cleveland, Ohio, U.S.A. - 1985-1986)
Cooperative internship. Designed noise simulator for MK48 torpedo testing; developed computer-controlled system for measurement of complex modulus; designed hardware and controlling software for Wave Vector Driver. Confidential security clearance.

Other Professional Leadership Experience

Chairman, Enterprise Wireless Alliance (formerly Industrial Telecommunications Association and American Mobile Telecommunications Association).

Chairman, Aeronautical Frequency Committee; Liaison to ARINC/ASRI Board of Directors.

Delegate, International Air Transport Association (IATA) delegation to the World Radiocommunication Conference (WRC-2000, Istanbul and WRC-2003, Geneva).

Education History

Bachelor of Science, Electrical Engineering, December 1987; Speed Scientific School at the University of Louisville.

Completed course work for Master of Engineering, Electrical Engineering, May 1989 (thesis pending).

Merit scholarships: Eagle Scout, University Trustee's (full tuition).

Key Leadership and Technical Skills

- Aeronautical voice radio systems
- Aeronautical datalink systems (ACARS)
- Radio direction-finding (RDF)
- Communication console systems
- Trunked radio networks
- Point-to-point microwave links
- Satellite communication systems
- X.25 packet radio networks
- Antenna design
- Wireless Markup Language (WML)
- XHTML Mobile Profile
- High frequency (HF) radio systems
- Paging systems (1-way and 2-way)
- Radio/telephone interconnection
- RFID systems (active and passive)
- 2G technologies—GSM, CDMA, etc.
- 2.5G technologies—GPRS, 1xRTT, etc.
- Real Time Location Systems (RTLS)
- Wireless LANs (802.11b, a, g)
- Active filtering and noise reduction
- Radio teletype (RTTY)
- FAA T-PED allowance process
- ICAO-standard SELCAL
- Free space optics (FSO)
- Digital forward error correction techniques
- Ultra wideband (UWB)
- RF interference mitigation
- Ionospheric radio propagation analysis
- Digital logging recorders
- Bluetooth (802.15)
- Computer-controlled data acquisition
- Wireless coexistence management
- Distributed antenna systems (DAS)
- Project planning and management
- RFP development
- System reliability analysis
- M & A analysis and implementation
- Vendor management
- Technology lifecycle management
- Systems configuration
- PDIO technology management model
- Disaster recovery
- Systems security
- Asset utilization
- Matching technology to business need
- Trend analysis
- New technology research
- Customer relationship management

Additional Qualifications

International Experience – Extensive travel experience throughout more than eighty countries in Asia, Europe, the Pacific, South America, the Caribbean and Africa. Skilled at conducting business in a variety of cultures. Eligible for Philippine residency status. Basic Spanish language skills. Limited Tagalog language skills.

Writing Skills – Published articles in *Proceedings of the 31st Midwest Symposium on Circuits and Systems*, *Proceedings of the 111th Meeting of the Acoustical Society of America*, *The DX Magazine*, *CQ Amateur Radio Magazine* and other periodicals. Authored "Communications" chapter of UPS Flight Operations Manual and sections of other FAA-approved technical publications. Authored numerous FCC and FAA regulatory filings. Sample writings available on request.

Computer Skills – Strong skills across multiple operating systems (DOS, Windows, UNIX); programming experience in Pascal, BASIC, FORTRAN, Perl, HTML, WML and XHTML.

Licenses – Commercial FCC General Radiotelephone Operator License, U.S. Amateur Extra class license (N4GN), European CEPT Class 1 Amateur license (OH4GN).

Volunteer Activities – Co-founder, Temotu Development Fund; Director, Northern California DX Foundation; Member, Staff-Parish Relations Committee, Fern Creek United Methodist Church.