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Jean R. Alphonse

WIRELESS SYSTEMS ENGINEER / ARCHITECT

Seasoned technology and product developer with a strong record of accomplishment designing winning technology solutions for consumer; seeking leadership role in defining, developing next generation products.
Executive with global success in wireless, leading teams in product management, technology research and development, market analysis, industry standards. Capable of delivering state of the art technology in challenging environments.
Possesses 20+ years of experience in the telecommunications industry, including 15 years participating in mobility standards related groups and industry consortia to publish multiple standards in support of the market initiative for CDMA implementation in the US and Asia. Is knowledgeable regarding 3GPP and 3GPP2 based Layer 2 and 3 protocols, CDMA core design. Maintains a large network of industry contacts. Areas of expertise include:

- Strategic Planning
- Research
- Electrical Engineering
- Team Building/Facilitation
- Client Relations
- Product Development
- Java Development/Methodologies
- Training/Development

Bilingual: English/French.

Specialties

Chairman - 3GPP2 Technical Specification Group (TSG-C: CDMA Radio Access)
Chairman - TIA TR-45.5 Spread Spectrum Digital Technology - Mobile and Personal Communications Standards

Highlights

- Provided leadership and guidance to the TIA TR45.5 and 3GPP2 TSG-C committees throughout a difficult and contentious time successfully bringing parties together and building consensus through a united front.
- Developed, coordinated, and presented technical contributions for standards groups nationally. Contributed to the adoption of architectures, protocols, procedures and features in the domain of emerging wireless technologies and services – within international standards forums.
- Provided technical analysis, strategic insight and recommendations on next-generation technologies and services to guide executive decisions.
- Developed technical solutions and implementations around a multi-mode Base Station (BS) supporting CDMA 1x, HRPD (High Rate Packet Data), and LTE (Long Term Evolution) technologies.
- Executed a technical analysis of different vendors of Enhanced 911/Position Location technology Phase 2 requirements, such as network-based or handset-based; selected the Snaptrack system, which fulfilled all test plan requirements and surpassed performance expectations.
- Assessed responses on an advanced Location RFI and feasibility study on location for E911 and utilized the system to deploy a set of commercial applications; recommended how location services could be used to produce profits from sensitive billing and concierge services, etc.
- Compiled and utilized hourly/daily service measurement data to optimize a network while reducing lost calls and ineffective attempts.
- RFP and vendor selections. Knowledge of IMS, Wi-Fi, CDMA LTE/4G and credible players in markets.

Experience

Paradigm Solutions Inc. - Chicago, Illinois
Wireless Strategic Consultant, 2007-to present
Review wireless bids and proposals for system-wide CDMA implementation from vendors on 3G and LTE. Managing discrete CDMA team and acts as liaison to other teams, and implement solutions including CDMA evaluation and assessment of current and future systems. Analyze industry and technology trend, market dynamics, identify business opportunities, and develop middle to long term strategy to guide company CDMA product direction.

LUCENT TECHNOLOGIES - NAPERVILLE, ILLINOIS
Wireless Systems Engineer/Member of Technical Staff, 2000-2006

- Participated in activities with standards bodies to present and promote adoption of CDMA technology.
- Shepherded 3GPP2 specifications through the TIA ballot process and publication. Track the 3GPP2 standard development and product evolution roadmap, and actively contribute inputs to product development.
- Assisted in ITU WP8F and initiated CDMA technical updates in both committees prior to deadline by working with the TIA Secretariat.
- Contributed to the creation of WGs, focusing on the development and specification of User Services and Signaling Protocols.
- Participated in IEEE 802.20 in support of Flarion Systems based technology.

AMERITECH CELLULAR SERVICES/GTE/VERIZON WIRELESS - SCHAUMBURG/HOFFMAN ESTATES, ILLINOIS
Director of Advanced Wireless Technology, 1998-2000

- Did RF analysis of system prior to incorporate new BSC.
- Conducted feasibility studies on new technology and product concepts.
- Defined technology direction by analyzing advanced issues, champion concepts, and future products' services in CDMA, such as over the air provisioning, third-generation technology (W-CDMA), and competitive system (GSM).
- Represented wire-line/wireless issues in CALEA E911 meetings.
- Facilitated GPS/assisted GPS team meetings to document and finalize a plan for testing GPS capabilities on any CDMA network.

- Participated on a GPS trial team that validated GPS technology in a CDMA system; provided input to legal regarding comments to the FCC on expediting the decision with respect to a handset-based solution.

Assistant Director of Wireless Technology Development, 1996-1998
- Participated in CDMA field testing during trials and Chicago system deployment.
- Offered recommendations on CDMA training for the markets.

Manager of Science and Technology, 1992-1996
- Served as a North American Digital Cellular Standards Representative for Ameritech in TIA TR45.5 meetings. Prepared meeting summaries on critical issues. Presented Ameritech's point of view in standards meetings and solicited support for Ameritech positions.
- Collaborated with Marketing and Engineering on feature developments and decisions made during the standards process that may have impacted their strategies.
- Provided technical assessments of standards proposals and features developed in the standards arena.
- Supported the strategy plan with features related to CDMA and TDMA.

Manager of RF Research and Development, 1992-1993
- Participated in CDMA core test team and brass board testing in San Diego to define procedures.
- Wrote multiple test sets and coverage tests for building penetration, macro cell, and other purposes.

Senior System Performance Engineer, 1988-1992
- Trained and supervised other System Performance Engineers engaged in evaluating and improving areas of poor coverage by identifying system performance problems (dropped calls, static, and interference); reporting problems to appropriate engineers; resolving customer service issues; and implementing solutions.
- Generated new cell site translations and neighbor lists in support of regional build program activity. Developed a troubleshooting document that was incorporated into System Performance Guidelines. Created maps for network optimization and planning. Executed special engineering studies.
- Established AMCI wireless labs, including reviewing bids for, procuring, and receiving equipment as well as completing vendor training on each one.
- Investigated poor/weak service areas reported by cellular users. Maintained lost calls in the Chicago-Indiana-Wisconsin markets at less than 3%.
- Partnered with RF design to correct cellular interference by running PLMS and voice channel selection activities through antenna change-outs, threshold adjustments, and power scaling
- Integrated multiple cell sites within the Ameritech system.
- Participated in continuing learning opportunities regarding all new technology which enhanced and advanced cellular service capabilities.

Previously employed by Motorola Inc. as a Test Equipment Engineer.

TELECOMMUNICATIONS INDUSTRY ASSOCIATION

Chairman of TIA TR45.5 North American Digital Cellular Standards Committee, 1996-2007
- Operated within guidelines and procedures designed to facilitate open discussion and avoid anti-trust litigation.
- Led a group of marketplace competitors, including equipment manufacturers and service providers, to transform a potentially conflicting position to a consensus position that may be published as an American national standard.
- Played a key role in expediting the process by obtaining consensus on critical issues from non-CDMA supporters.
- Accelerated the publishing of approved documents. Instilled discipline in voting requirements and compliance with TIA procedures.
- Knowledgeable and promoted IS95, CDMA2000, 1xEV-DO protocols to the international community.
- Managed close to 50 member companies (app. 150 members) to complete the standards.

Chairman of 3GPP2 TSG-C Committee, 1998-2002
- Guided a group of marketplace competitors, including equipment manufacturers and service providers, to transform a potentially conflicting position to a consensus position.

Task Group Chairman of Intersystem Operations TIA TR45.5, 1992-1995
- Discussed and prepared contributions to other TIA subcommittees to support roaming between different CDMA systems as it pertained to analog features, handoff functionalities, and A+ interfaces.
- Attended TIA TR45.2 (Intersystem Operations) on a bimonthly basis to ensure interoperability with analog, CDMA, and PCS.

CDG System Test Group Participant, 1991-1999
- Developed a standard CDMA network acceptance test plan that defined the test objectives and analysis of key features.
- Participated in industry meetings of CTIA Operational Performance and Test Description to define a set of common test procedures for CDMA.

Education

Bachelor of Sciences in Electrical Engineering – Concentration in Communication Systems, University of Illinois at Chicago, June 1986