WILLIAM (BILL) P. ALBERTH, JR.

Prairie Grove, IL

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EXECUTIVE SUMMARY

Technology Executive passionate about hardware, software, and innovative technology development, with demonstrated success leading global technology teams supporting a $7B+ business. Recognized technology leader in the wireless communications field. Proven track record of developing and leading teams through vision-inspired leadership.

Career Highlights

- Secret Clearance
- Created and led high-performing teams of scientists, engineers and PhDs. Teams were responsible for roadmaps, technology innovation and commercialization of solutions for electrical, mechanical, software, battery, imaging, displays, RF architecture, WIFI, Bluetooth, and audio.
- Experienced with NR, LTE, UMTS, GSM, Bluetooth, WIFI, GPS, and other communication protocols.
- Generated strategy, technology, and intellectual Property for wearable devices.
- The Top Innovator at Motorola Mobility with over 150+ Patents pending or granted on mobile systems, manufacturing components, user interface, solutions and operation.
- Successful working with Principal Investigators to identify and patent high technology to support $2B+ patent portfolio.
- Leadership of 700+ multi-site, multi-national hardware and software engineers implementing advanced technology to commercialize world-class products.
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CORE COMPETENCIES

- Innovation
- Intellectual Property
- Technology Evaluation / Acquisition
- Wireless Systems
- Strategy
- Situational Leadership
- Technology Development
- Product Development
- Teambuilding & Talent Development
- Customer/ Government Relationships

EXPERIENCE

Roberson and Associates, LLC Chicago, IL **2014 - Present**
Vice President Mobile Technology

- Consult with Industry partners and government on Spectrum Compatibility, Communications, Wireless Technology, and Intellectual Property.
- Lead cross-functional team to build and test an Air to Ground LTE communication system.

CTO Akhan Semiconductor, Gurnee, IL **June 2016 – July 2021**

- Emerging startup, stood up class 3 clean room and started commercialization of Diamond films.
- Growing Diamond for commercial partners.

Argonne National Lab, Lemont, IL **2014-2015**
STA (Special Technical Advisor)

- Creating and categorizing Argonne's IP portfolio.
- Sr. Advisor Argonne National Laboratory, transferring new technology to industry.
- Worked with 15 PhD's and scientists to identify and patent technology.
- Partnered with Argonne Legal to manage Patent Portfolio and determine foreign filing status.

VP and CTO Green Edge Technology, San Diego, CA **Aug 2013 – June 2015**

- Created working, easy to use, IOT Wireless Home Automation products (outlets, thermostats, HVAC and control system).
- Generated a patent portfolio to protect intellectual property.

Innovations Technologies Consulting, Inc., Prairie Grove, IL **2012 - Present**
President and Founder

- Advising Startups, Venture Capital Firms and Fortune 500 companies providing technical direction on New Technology, Product Development and Innovation.
- Advising Phase Space on AR/VR solutions.
- IP Defense, IP portfolio management, and Expert Witness.

MOTOROLA MOBILITY, Libertyville, IL **1986 – 2012**

VP and Chief Technology Officer, Mobile Devices 2007 – 2012
End-to-End Leadership of Motorola Mobility's Hardware and Software Technology Innovation and Development. Managed global multisite team with 700 direct reports.

- Directed technology strategy and communication with domestic / international customers and suppliers to influence roadmaps and build relationships.
- Designed Reference Hardware across multiple generations of chipsets reducing time to market by 6 weeks and increasing reuse.
- Technology evaluation of global 3rd party technology assets pursuant to multi-million dollar investments.
- Lead team and created 60% of the intellectual property for Motorola Mobility.
- Defined, developed, and commercialized advanced Hardware and Software differentiating technologies in support of business segment owners, on time, on budget with quality.
- Led strategic component teams responsible for developing high value components and delivering platform solutions on time with quality, including imager systems, touch displays, energy systems, acoustics, integrated circuit systems, batteries, sensors and differentiating technologies.
  - Enabled new iconic and world's thinnest form factor by creating modified battery packs.
  - Developed and commercialized multiple generations of vivid displays with world-class power and performance.
- Collaborated with customers and launched highest performing LTE Phone supporting simultaneous voice and LTE with 30 db improved performance.
- Led Motorola's standards initiatives driving IP into 3GPP and other international standards.

Fellow, Technical Staff, Motorola 2004 – 2007
Established Motorola's technology direction with customers and suppliers as the Technical Lead for the CDMA business unit. Managed 50 direct reports.

- Identified technology solutions, and drove development for next generation technical platforms.
- Recruited team members and developed best in class RF and call processing performance, and drove success across all Motorola products.
- Spearheaded Motorola strategy on key Spectrum issues. Co-authored and presented Motorola's position paper to the FCC. Collaborated with customers providing key assistance in generating their business plans regarding spectrum.
- Trusted technical advisor to Carriers on Technology and Deployment.

Principal Staff Engineer, Distinguished Member Tech Staff, Motorola 1999-2003

- Co-lead the architecture, design, development and commercialization of Motorola CDMA chipset.
- Led chipset design, system performance and had overall responsibility for the RF deck and interfaces and algorithms to control it.
- Designed and commercially launched Chipset in cell phones contributing to Motorola's commercial success. Accomplished best in the world current drain and performance for a CDMA product.
- Led architecture team and development for UMTS chipset definition. Commercialized silicon to Motorola UMTS customers in multiple regions.

MOTOROLA MOBILITY

Engineer and Senior Staff Engineer, Cellular Subscriber Group, Motorola 1987 – 1999
Responsible for all technical development and commercialization of cell phones for the Japanese market.

- Responsible for products meeting world-class performance specifications, cost, manufacturability and quality. The product won a quality award from DDI.
- Authored and presented RF section of Motorola's response to a UMTS RFI, and contributed to a significant contract win.
- Aggressively drove supplier-packaging roadmaps to facilitate smaller phone packages enabling a digital Star TAC product.
- Managed, coached and mentored team of 15 engineers in addition to technical contributions.
- Created and implemented a multi-disciplined plan to improve PDC products to best in class current drain.
- Lessons learned implemented across all Motorola phone products.

Engineer, Northrop Grumman (Security Clearance) 1986 – 1987
Designed and built 2 Shop Replaceable Units (SRUs)

EDUCATION

- **MSEE**, Illinois Institute of Technology, Chicago, IL, 1992
- **BSEE**, University of Illinois Urbana-Champaign IL, 1985
- Continuing Education courses – technical, management, business, Machine learning

BOARDS AND COMMUNITY

- **Board of Directors** – Open Mobile Alliance 2014-2016
- **Board of Advisors** – NextNav , Sunnyvale, CA 2014-Present
- **Industrial Board of Advisors** – SiNode now Nanograf, Chicago, IL 2016-Present
- **Member Advisory Board -** Northwestern University Electrical EE and CS (EECS) 1999 - present
- **Treasurer**, Boy Scout Troop 158, 1995 – 2013

AWARDS

- 141+ Granted Patents
- Leader of Motorola's Professional Technical Ladder managing career development and promotions
- Elected Motorola Fellow
- Elected Dan Noble Fellow, Motorola's highest engineering award, Top .001% of Engineers
- Elected to Motorola SABA (Science Advisory Board), Top 1% of Engineers
- Member, Motorola Mobile Devices Patent Committee
- Standards Award for contributions to Spectral Planning
- Distinguished and Master Innovator Award Patents
- Quality Appreciation Award from DDI (Japanese customer), 1995