

## **Steven R. Sherman**

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### **Qualifications**

Eleven years experience in design and performance evaluation of base station, panel, microwave, & tactical military antennas.  
Seven years experience in design and performance evaluation of mobile device antenna systems.  
Seven years experience in electromagnetic exposure reduction design for mobile devices in close proximity to the human body.  
Experienced user of XFDTD, ELNEC & Agilent GENESYS for computer aided design.  
Excellent ability to collaborate with other team members to achieve common goals.

### **Professional Experience**

#### **Netcom, Inc**

**Wheeling IL 11/2010 to 3/2012**

- Passive Waveguide RF Device Contract Manufacture Production Engineering.
- Development/Production of Crystal Filters, Comb Generators, Oscillators and Frequency Agile Filters.

#### **PCTEL Antenna Products Group (Contract Position)**

**Bloomington, IL 12/2007 to 8/2008**

- Design of Mobile and Fixed Wireless Antenna Systems 137 MHz through 3.8 GHz.
- Margin Improvement of Mobile and Wireless Antenna Systems.

#### **Motorola Mobile Devices, Antenna Technology Center of Excellence, Antenna Integration Group**

**Libertyville, IL 9/1999 to 4/2007**

- Antenna system design for mobile devices within the constraints of electromagnetic energy exposure regulations and customer requirements for radiated performance utilizing virtual (XFDTD) & physical prototypes.
- Investigations of antenna system/RF related customer field issues.
- Measurement of the antenna system efficiency & radiated performance of mobile devices.
- Expert in the design and construction of antenna prototypes & design of antennas for test instrumentation.
- Experienced with SAR (electromagnetic energy exposure) & Hearing Aid Compatibility measurement of mobile devices.
- Design & Development of the Radiated Sensitivity Test & Specification for FM Broadcast Receivers in Cellular Phones.
- Experience with development/debugging of 3 meter spherical anechoic chamber & antenna measurement reverberation chamber.
- Design & Development of antenna performance measurement processes & antenna system measurement best practices.
- Responsible for Hearing Aid Compatibility measurement & antenna measurement reverberation chambers.
- General RF circuit design cleanup as a member of the CDMA Technology & Product Realization Group.
- Submitted 25 Invention Disclosures.

#### **COMSAT/RSi Wireless Antennas**

**Des Plaines, IL 7/1988 to 8/1999**

- Design and development engineering of antennas, including: directional & omnidirectional base station antennas, wireless local loop panel antennas, flat panel array antennas, microwave reflector, & tactical military antennas.
- Mechanical & electrical design and development of Tomato Can, Waveguide Horn, Potter Horn, Skeleton Slot, 3 element Yagi & Dipole-Reflector feeds for parabolic reflector antennas as appropriate over the range of 335 MHz to 24 GHz.
- Reengineered the Dipole-Reflector feed design process to eliminate scrap.
- Design of Antennas for test instrumentation.
- Experience using & running an outdoor test range with two 400' & one 2500' range lengths.

#### **Beltone Electronics Corp**

**Chicago, IL 9/1983 to 12/1987 & 2/1988 to 3/1988 as contractor**

- Designed analog hearing aid simulator for the Japanese market
- Worked with the first commercial version of the Zeta Noise Blocker IC and the leading competitive analog design.
- Designed hearing aid circuitry, measured acoustic & magnetic coupling (telecoil) performance.
- Excess inventory reduction through product redesign.

## **Education**

- BSEE, University of Illinois, Urbana-Champaign
- Oakton Community College, Morton Grove/Des Plaines, IL
- Motorola University Courses (including training on HFSS, Pro/Engineer Wildfire & Agilent ADS)
- Six Sigma Quality White Badge.

## **Professional Society Affiliations**

- IEEE Member
- IEEE EMC Society
- IEEE Antennas and Propagation Society