



# FIRST RF CORPORATION

Non-Traditional Defense Contractor (NTDC) and small business specialized in engineering and manufacturing affordable advanced antennas & RF systems for aerospace, defense, civil, and commercial markets.

## WHO WE ARE

### GENERAL INFO

- 130 Employees
- 50,000 Sq. Ft. Facility located in Boulder, CO
- DCSA Cleared Facility



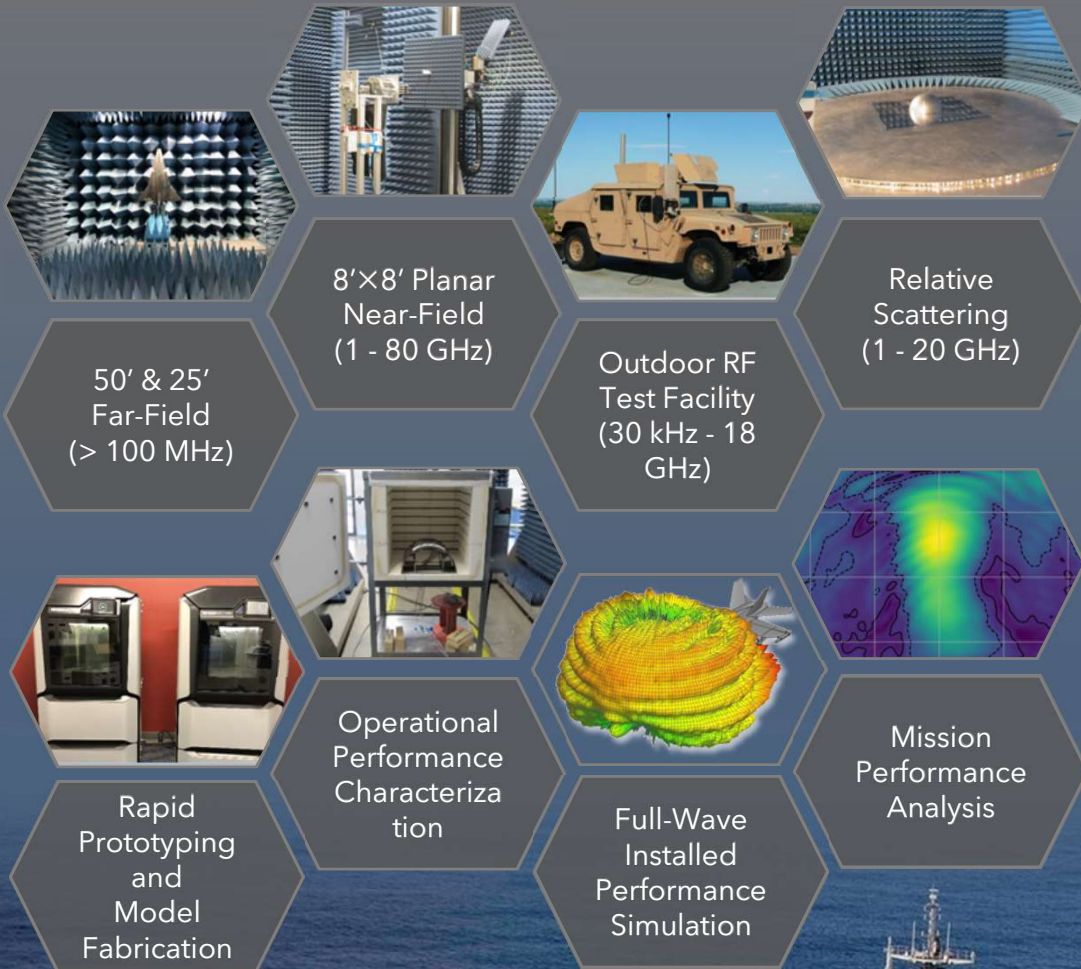
### ABOUT US

FIRST RF specializes in full-lifecycle support, from advanced development through manufacturing. We have earned a reputation for innovation and excellence in the industry. Equipped with the resources of a large company and the agility and value of a small business, we strive for 100% customer satisfaction.





## Award-Winning Production and Quality



FIRST RF engineering and manufacturing teams develop and manufacture a range of state-of-the-art antenna and RF technology products.

FIRST RF design and production capabilities span the full spectrum lifecycle, starting from advanced concepts, to design, test, qualification, through production.

- Over 250,000 antennas delivered
- More than 250 antenna systems produced per day
- AS9100 and ISO 9001:2015 certified
- Received multiple DMCA quality awards for on-time performance





# TECHNOLOGIES

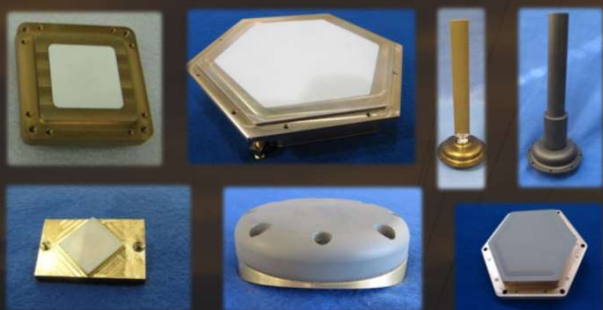
## WIDE RANGE OF CUSTOMIZABLE SOLUTIONS

FIRST RF antennas and RF systems provide affordability, high performance, and reliability, to do more with less. Active programs and products cover the following markets:

- Conformal Antennas
- Electronic Warfare
- Communications
- Radar

FIRST RF markets COTS products and works with customers to develop and modify products that meet unique needs.

FIRST RF has various patents and patent-pending technologies related to ultra broadband antennas, navigation, radar and phased array technology.



## CURRENT TECHNOLOGY AREAS



Broadband  
Antennas &  
RF Systems



High Shock  
High Temp  
Conformal  
Antennas



Digital RF  
Interfaces



High  
Capacity  
Back Haul



Low-Cost  
Phased  
Arrays



Remote  
Sensing



Multiband  
Frequency  
Converters



Active RF  
Cancellation



Low  
Probability  
of Detection



Multi-Beam  
Phased  
Arrays



Covert  
Comms



Tactical Data  
Link

In 2005, FIRST RF received the Army's Top 10 Inventions of the Year award, which started as an SBIR contract for a broadband EW antenna system for CREW systems. FIRST RF antenna systems are designed for affordability, reliability, optimum RF and mechanical performance.

# APPLICATIONS

MMW  
Communications  
and Sensing

Fixed and  
Mobile Radar

Navigation and  
Electronic  
Warfare

Communications

Conformal  
Antennas



## PROVEN PERFORMANCE

- Over 160,000 **tactical vehicular antenna** systems have been delivered in support of operations in the Middle East.
- **Phased array** systems, both large and small, for missile defense, SATCOM, ground communications and airborne relays covering from UHF through Ka-Band. Platforms include airborne (manned and unmanned), ground vehicles, amphibious, maritime, and space applications.
- **Munitions antennas:** GPS, Low Observable, end-fire/ wrap-around antennas, all built at a fraction of the cost of competing solutions.

- **Ultra-Wideband Antennas for Electronic Warfare:** VHF through C-Band from a single aperture, high-power handling, both mobile and fixed site applications.
- **Airborne Communications antennas** for JTRS, TCDL and AMF Programs.
- **Ultra-wideband antennas** (300:1 single-structure antenna)
- **Low-cost Attitude and Heading Reference (AHRS) System**
- **Body-wearable antennas**
- **Anti-RPG, Sniper Fire Detection, Weather, and Obstacle Avoidance Radar Antenna Systems**
- **Space Reflectors**

## FIRST RF HAS SUCCESSFULLY DEVELOPED TECHNOLOGY WITH...

### SYSTEMS INTEGRATORS:

SRC, ITT, Raytheon, Northrop Grumman, Lockheed Martin, General Dynamics, Cubic, Argon ST, BAE Systems, Sierra Nevada Corp., Cobham, LGS, and Honeywell.

### GOVERNMENT CUSTOMERS:

U.S. Army, Air Force, and Navy, Marine Corps, MDA, DARPA; NASA, NOAA; Johns Hopkins University Applied Physics Laboratory and the Jet Propulsion Laboratory.

### UNIVERSITY CUSTOMERS:

University of Colorado, Perdue, University of Massachusetts, and CALTECH.



Dean Paschen



303-449-5211 x145



[inquiries@firstrf.com](mailto:inquiries@firstrf.com)



6150 Lookout Road  
Boulder, CO 80301

**CONTACT US**



<https://firstrf.com/>