eikon
RESEARCH, INC.

RADAR PROTYPING

RADAR EXPERTISE

MODELING & SIMULATION

APPLICATIONS ENGINEERING

OVERVIEW

Eikon Research (Eikon), headquartered in Huntsville, Alabama, is a leading provider of advanced radar technologies and defense solutions. Since 2014, Eikon has supported the U.S. Department of Defense by delivering innovative radar systems, high-fidelity modeling and simulation tools, and mission-customizable user interfaces.

We specialize in developing adaptable, cost-effective radar solutions that meet evolving national security requirements. By integrating commercial off-the-shelf (COTS) components, Eikon ensures affordability without compromising performance or reliability. Their systems are designed for portability, scalability, and rapid deployment across diverse operational environments. Our modular user interfaces and simulation capabilities enable precise system testing and mission-specific customization, enhancing operational effectiveness and reducing risk. With a strong focus on innovation, responsiveness, and mission alignment, Eikon is a trusted partner in advancing U.S. defense capabilities.

NAICS CODES
541715, 334511, 541330, 541380, 541511, 541512

CONTRACT VEHICLES
- Aviation & Missile Technology Consortium (AMTC) OTA

SPECIALTIES

RADAR PROTOTYPING
Eikon guides clients from concept to a custom prototype tailored to your unique mission needs. Our approach to low-SWaP (size, weight, and power) radar development is agile, collaborative, and focused on results.

RADAR EXPERTISE
Our multidisciplinary team—spanning engineering, physics, and advanced software—provides high-precision radar solutions through technical consulting, system modeling, CONOPS development, and integration support. With proprietary in-house tools, we deliver rapid, cost-effective insights that enhance mission capability and reduce development risk.

MODELING & SIMULATION
Eikon delivers high-fidelity modeling and simulation solutions to support every phase of radar system development—from concept through field test prep. Our modular tools, built in MATLAB, JavaScript/Node.js, and C++, include radar performance simulators, emulators for integration, and real-time stimulators for SWIL/HWIL—enabling accurate, cost-effective analysis and mission readiness.

APPLICATIONS ENGINEERING
Eikon engineers secure, high-performance applications tailored for Department of Defense missions. Leveraging JavaScript/React/Node.js and C++/Qt, we enable real-time EM and radar data visualization, live mission execution, radar system configuration, and post-mission analysis. Our solutions also support 3D geospatial displays, sensor tasking, and audit-ready tools that accelerate operational decisions and ensure mission readiness through intuitive, mission-focused interfaces.

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