
Capabilities Summary

RC Elite Systems, LLC (RCES) develops rugged electronic systems for demanding DoD applications. RCES specializes in mixed-signal and FPGA electronics, high-speed and RF interfaces, embedded processing, data acquisition and recording, and modernization of legacy systems.

We translate demanding requirements and existing platform constraints into practical architectures that can be implemented, integrated, verified, and transitioned toward production.

Core Competencies

- Systems Engineering & Architecture
- Mixed-Signal & FPGA Electronics
- Embedded Processing & Firmware
- High-Speed Digital & RF Interfaces
- Data Acquisition, Recording & Playback
- Legacy Interface & Electronics Modernization
- Automated Test & Factory Test Systems
- Root Cause Analysis & Failure Investigation
- System Integration, Verification & Qualification
- Prototype Development & Production Transition

Past Performance

U.S. Navy SBIR Phase I – Topic N241-024

High-Speed Communications for the MK 41 Vertical Launch System

- Successfully demonstrated the feasibility of a high-speed communications architecture while maintaining compatibility with existing missile interfaces.
- Defined and allocated system requirements and matured the architecture through SRR and SFR.
- Established the technical basis and clear path to prototype development.

Differentiators

- Extensive technical leadership experience in complex Navy weapon and mission-system electronics
- Full-lifecycle engineering experience from architecture through qualification, production transition, and field support
- Disciplined execution focused on early risk reduction, customer alignment, and predictable delivery
- Defense-ready business infrastructure for controlled and export-regulated DoD work

Technical Leadership Experience

RCES technical leadership brings nearly two decades of prior experience across Navy torpedo guidance and control, sonar, safety-critical high-speed recording, FPGA-based data acquisition, factory and acoustic test systems, interfaces (high-speed, legacy, and custom), precision timing, qualification, production transition, and field support.

Company Data

Cage: 9F9Y5
UEI: JQ5XGHU3M2S1
NAICS (Primary): 541715
Additional NAICS: 518210, 541330, 541511, 541512
PSC: AC14

Compliance & Registrations

- CMMC Level 2 Final Self-Assessment (SPRS)
- DDTC registered
- JCP certified / DLA Enhanced Validation (DEV) approved
- DCAA-compliant job-cost accounting practices
- SBA-certified Woman-Owned Small Business (WOSB)