RC Elite Systems, LLC

Advanced Electronics + Engineering Services for DoD Mission and Weapon Systems

Capabilities Summary

RC Elite Systems, LLC (RCES) designs and manufactures advanced electronics for DoD weapon and mission-critical systems. RCES supports the full product lifecycle from requirements inception through design analysis, implementation, integration, verification and validation, qualification, production, and support, delivering high-reliability solutions for harsh operational environments.

RCES brings extensive experience in the design and realization of advanced weapon systems, with strong depth in torpedo guidance and control systems, sonar and data acquisition systems, factory test equipment, and launcher interface electronics. Core capabilities include systems engineering, ruggedized electronics design for harsh mechanical and environmental requirements, mixed-signal electronics (analog + digital), high-speed digital and FPGA/HDL development (VHDL/Verilog), embedded processing (SoC, bare-metal and Linux), interface modernization, and backwards compatibility with legacy weapon and test system interfaces and protocols. RCES also provides test equipment design and develops technical documentation for DoD programs.

RCES operates in a NIST SP 800-171–aligned environment for CUI and maintains a CMMC Level 2 Final Self-Assessment in SPRS, maintains JCP and DDTC registrations, and employs DCAA-compliant job-cost accounting practices, enabling support for export-controlled and sensitive defense work. RCES has successfully performed a U.S. Navy SBIR Phase I (Topic N241-024, High-Speed Communications for the MK 41 Vertical Launch System), demonstrating the ability to execute federal R&D with rigorous technical deliverables and schedule discipline. RCES is a woman-owned small business.

Company Data

Woman-Owned Small Business
NAICS (Primary): 541715
Additional NAICS: 518210, 541330, 541511, 541512
PSC: AC14

Core Competencies

- Systems engineering and design analysis
- Advanced, mixed-signal electronics (analog + digital)
- High-speed communications
- FPGA firmware (VHDL/Verilog)
- Embedded processing (SoC, bare-metal, and Linux)
- Ruggedized design
- Interface modernization and backwards compatibility
- Factory and field test equipment design
- Root cause analysis

Differentiators

- Skilled technical team with leadership experience in weapon system development and production, including torpedo sonar guidance and control systems (MK54 MOD 1 P1/P2, MK54 MOD 2, MK48 MBSS, MK48 MOD 8), data acquisition/recorders, and related test systems
- Full product lifecycle execution: design, integration, V&V, production, and support
- Defense-ready handling: CMMC Level 2 Final Self-Assessment (SPRS); export-controlled work support
- Agile small business responsiveness with deep domain experience
- Disciplined execution under schedule pressure: frequent customer engagement, proactive risk management, and milestone-focused delivery

Past Performance

- U.S. Navy SBIR Phase I (Topic N241-024) - High-Speed Communications for MK 41 VLS

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)

For contracting inquiries: info@rc-elite.com

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