

## REBELWAVE TECHNOLOGIES

### Mission-Assured Autonomy Architecture

### Authority-Preserving Mission Software Systems

Capability Statement – UNCLASSIFIED

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#### Company Overview

RebelWave Technologies develops mission-assured autonomy software architectures that preserve human authority while enabling bounded machine execution across defense, aerospace, and contested operational environments.

#### Operational Architecture (CPC v1.2)

##### Rebel-Verse - Human Authority Plane

- Mission modeling
- Assurance reasoning
- Explainability
- Authorization
- Reject / Replan
- Evidence tracing

##### RTA - Machine Execution Plane

- Bounded mission execution
- Deterministic orchestration
- Signature-aware mobility
- Telemetry generation

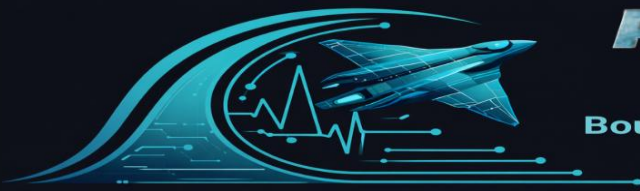
##### RTAS - Intentional integration architecture between Rebel-Verse and RTA.

Intent Flow: **MDSA-C** → **ARES** → **RMAC** → **R-SAME**

Evidence Flow: **R-SAME** → **RMAC** → **ARES** → **MDSA-C**

#### Mission Alignment

- Multi-domain mission coordination
- Contested operational environments
- Degraded communications resilience
- Human-machine teaming
- Evidence-traced operational review
- Bounded autonomy assurance
- Mission orchestration support
- Aerospace and defense autonomy integration



## Core Capabilities

### Rebel-Verse Capabilities (Human Authority Plane)

**ARES** - AI-assisted reasoning, explainability, and natural language interface (NLI) for human decision-makers. ARES-RAG captures decision rationale, generates traceability evidence, and provides assurance artifacts that enable operators to authorize, modify, or override autonomous recommendations with full accountability support.

**MDSA-C** - The authoritative human decision interface within Rebel-Verse. MDSA-C provides multi-domain situational modeling, visualization, and control across space, air, maritime, cyber, and ground domains, enabling authorized operators to evaluate options, issue authorizations, initiate replanning, and maintain full decision traceability.

### RTA Capabilities (Machine Execution Plane)

**RMAC** - Autonomous mission coordination and logic sequencing operating strictly within human-authorized constraints. RMAC manages task delegation, constraint enforcement, and inter-agent coordination while generating execution traces and evidence packages for human review and accountability.

**R-SAME** - Signature-aware mobility planning, survivability analysis, and threat-informed risk trade-space evaluation under contested and denied environments. R-SAME supports replanning requests initiated through Rebel-Verse and returns constraint compliance evidence to human decision-makers.

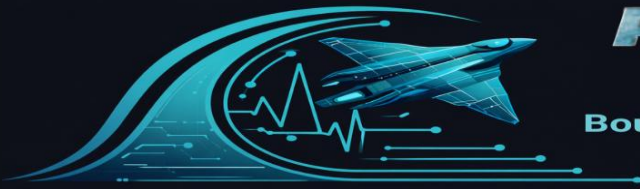
## Engagement Model

- Pilot evaluations
- Architecture support
- Prime subcontract support
- Mission autonomy advisory
- Integration planning
- Demonstration Support

Government program pathways available: BAA, SBIR/STTR, and OTA. All engagements are bounded and advisory. RebelWave does not execute missions or assume operational authority. Deliverables include evidence artifacts, rationale documentation, and traceability records.

## Differentiators

- **RebelWave addresses the operational gap between autonomous execution and human decision authority.**
- Purpose-built for Command & Assurance, the only modular solution addressing the gap between autonomous execution and human decision authority
- Veteran-Owned Small Business (VOSB); founder-led execution with 30+ years of mission-critical software experience across defense and aerospace programs
- Evidence-first architecture, every engagement produces auditable rationale, traceability artifacts, and accountability records
- Prime-integrable, non-disruptive modules that augment existing autonomy platforms without replacing them; compliance-aware design aligned with DoD AI ethics, acquisition, and assurance standards



## Company Data

<b>Legal Name:</b>	RebelWave Technologies Inc
<b>Business Type:</b>	Veteran-Owned Small Business (VOSB)
<b>DUNS / UEI:</b>	DUNS: 119457553 /UEI: FTG5DNHFYKQ6
<b>CAGE Code:</b>	0T4Q7
<b>NAICS Codes:</b>	Primary: 541511 - Custom Computer Programming Services 541512 - Computer Systems Design Services 541330 - Engineering Services 541519 - Other Computer Related Services 518210 - Data Processing, Hosting, and Related Services 541715 - R&D in Physical, Engineering, and Life Sciences
<b>Website:</b>	<a href="https://www.rebelwavetech.com">https://www.rebelwavetech.com</a>

## Contact Information

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LINKEDIN: [RebelWave Technologies](#)

RebelWave Technologies does not execute missions or assume operational authority. Human decision-makers retain responsibility to authorize, modify, or override all autonomous recommendations.