SECRETGADGETLAB INC.

CAPABILITY STATEMENT

HIGH-ASSURANCE SOFTWARE SYSTEMS & EXPLAINABLE AI

CAGE: 20A22 | UEI: FBS7J2TEZXF4 | SAM Status: Active (Exp. May 6, 2027)

CORPORATE PROFILE

SecretGadgetLab Inc. is an agile defense-technology and software engineering corporation specializing in Human-Machine Teaming (HMT), Explainable AI (XAI), and deterministic logic verification. Through our proprietary Provenance Framework, we engineer sub-millisecond node-level auditability and structured decision-tracing architectures for mission-critical command and autonomous systems. We equip warfighters and tactical operators with transparent, explainable, and resilient software pipelines that enforce DoD AI Ethical Principles and zero-trust verification.

CORE COMPETENCIES

- **Explainable AI (XAI) & Logic Decomposition:** Runtime isolation of autonomous decisions into atomic logical sub-components (Target Identification, Terrain Correlation, and Rules of Engagement verification).
- **Deterministic Human-Machine Teaming:** Mechanized cognitive safeguards with dynamic confidence thresholding (C_{min}) that halt uncertain machine actions and transfer authority to human operators.
- **Real-Time System Audit & Verification:** Immutable, sub-millisecond ledgers logging sensor ingest, edge telemetry, and model inferences for thorough post-mission debriefing and system safety assurance.
- **Simulation & Digital Twin Testing:** High-fidelity tactical synthetic environments for stress-testing multi-agent coordination, edge vulnerabilities, and algorithmic resilience against electronic counter-actions.
- **Secure Cloud & DevSecOps Engineering:** Hardened microservices architectures, containerized edge deployments, and strict API-driven integration for Joint All-Domain Command & Control (JADC2) environments.

KEY DIFFERENTIATORS

- **Beyond Black-Box Autonomy:** Translates complex, opaque multi-modal neural network outputs into human-auditable logical steps in sub-millisecond operational windows.
- **Dynamic Fail-Safe Control (C_{min} Engine):** Mitigates operator cognitive overload by automating high-certainty baseline workflows while instantly escalating edge cases.
- **100% Unencumbered IP Ownership:** Clean title on all core proprietary algorithms, source code, and design documentation under strict founder work-for-hire assignments.
- **Commercial-to-Defense Agility:** Rapid engineering cycles bridging commercial AI breakthroughs into FAR- and OTA-compliant prototypes ready for operational field trials.

CORPORATE DATA & CODES

Field	Details
CAGE Code	20A22
UEI (SAM)	FBS7J2TEZXF4
Business Type	Small Business
Corporate Form	C-Corporation (California)
State Entity ID	B20260008103
Awards Status	All Awards Eligible
Primary NAICS	**541512** — Computer Systems Design Services

Field	Details
Secondary NAICS	• **541511** — Custom Computer Programming Services • **541519** — Other Computer Related Services • **541715** — R&D in Physical, Engineering, and Life Sciences • **541330** — Engineering Services

TARGET SOLICITATIONS & VEHICLES

> **GSA OASIS+ SB | Navy SeaPort-NxG | DoD SBIR | DARPA I2O BAAs | NASA SEWP VI | DIU CSO | USSOCOM ANCHOR | AFWERX Open Topics**

GOVERNMENT POINT OF CONTACT

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