

CAPABILITIES STATEMENT



Tactical XR. Secure Edge Compute. Deterministic Execution.

Enabling Multi-Domain Command and Control at the Tactical Edge

The tactical edge is fragile; Stormfish Scientific makes it durable. Since 2016, Stormfish Scientific Corporation has engineered solutions for the DoD's most complex and hostile operating environments. As an SBA-certified Economically Disadvantaged Women-Owned Small Business (EDWOSB), we specialize in emergent R&D for the tactical edge, where commercial networks fail and legacy sensors are routinely compromised. We build more than just software; we engineer the durable "nervous system" required to make advanced technology survive the modern battlefield. By bridging stateful AI orchestration, Zero-Trust data pipelines, and immersive Extended Reality (XR) C2 systems, we ensure that critical intelligence flows deterministically from the most chaotic, infrastructure-denied environments directly to the human-in-the-loop to enable superior decision making.

Past Performance

DEVCOM Army Research Lab
Battlefield Information Systems Branch
Content Understanding Branch



POINT OF CONTACT

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CORPORATE DATA

Stormfish Scientific Corporation
Silver Spring, MD 20910

UEI: JVJECMD7A5X5

CAGE: 7TPL5

Socio-Economic: SBA-Certified EDWOSB / WOSB

Primary NAICS: 541511, 541330, 541519, 541512, 541715, 541990,



CORE COMPETENCIES

- **Immersive Command & Control (C2):** Extended-Reality (XR) Information Mediation, multi-user shared environments, and TAK/XRTAK integrations.
- **Resilient AI & Edge Compute:** Stateful AI/ML Orchestration and hardened, fault-tolerant workflow execution.
- **Zero-Trust Cybersecurity & Sovereign Orchestration:** Secure Edge Enclaves, Compliance-as-Code, and the Sovereign Data Exchange (SDX) architecture.
- **Applied Cryptography:** Cryptographic blast-radius containment featuring time-bound key rotation and context-aware encryption for complex, stateful workflows.
- **Autonomous Systems Integration:** Robotic and Autonomous System (RAS) telemetry, human-agent teaming, and UxV swarm C2.
- **Infrastructure-Denied C2:** LoRa Mesh Networking and ad-hoc tactical communications.

PRODUCTS AND SERVICES

- **The AuroraXR® Ecosystem:** Tactical XR Servers and Communications for the Tactical Edge
- **Sovereign Data Exchange (SDX) Architecture:** Hardened "Secure Bridge" for resilient orchestration and cryptographic blast-radius containment in high-risk environments.
- **Stateful Edge Compute:** Deterministic AI/ML Orchestration for Isolated and RF Jammed Environs
- **"Guardian" Enclaves:** Zero-Trust K8s wrappers and cryptographic blast-radius containment
- **LVC Simulation:** Bridging live MILES and TAK telemetry with virtual 3D battle spaces

The Stormfish team brings decades of combined, cross-domain expertise to the tactical edge. Our engineers' capabilities span resilient AI/ML orchestration, Extended Reality (XR) systems, high-performance tactical and optical networking, advanced cryptography, and the deployment of hardened intelligence systems. This diverse technical foundation allows us to rapidly adapt commercial innovations into survivable military capabilities.

<https://stormfish.us>