GEOCOM Co. LLC

One-Pager for ΔSpearX UAV Dual-Use & Defence Innovation

Company Information

Team-Size: 1-20

Founded: 2022

Domain: Land, Air, Maritime

Revenue Model: Hardware, Service

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Mission Statement

To deliver a versatile, modular ΔSpearX UAV platform capable of endurance surveillance, rapid armed interception, and airborne deployment of interceptor drones, ensuring superior situational awareness and mission adaptability in both defense and civilian sectors.

USP & UVP

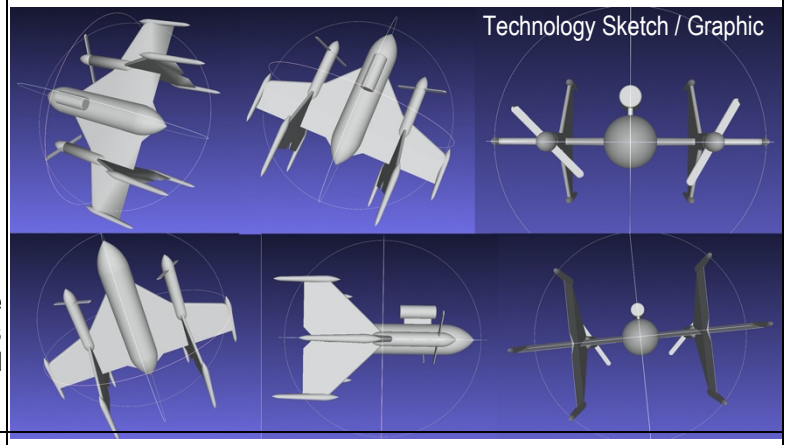
The only UAV in its class with hybrid propulsion, hydrogen fuel cell support, multispectral detection, Edge AI, and airborne interceptor deployment (iSpearX) in a modular NATO-standard design. ΔSpearX offers unmatched flexibility - combining endurance, speed, and layered defense while minimizing downtime and mission costs.

Technology / Solution / Unfair Advantage

Technology: ΔSpearX is a modular multifunctional UAV platform with hybrid propulsion (electric motors + micro turbojet), hydrogen fuel cell compatibility, advanced multispectral and audio detection, and onboard Edge AI for real-time decision-making.

Solution: The UAV can operate in multiple modes—vertical take-off, long-endurance patrol on electric propulsion, and high-speed interception using the turbojet. In interception missions, ΔSpearX can deploy the iSpearX high-speed kamikaze-interceptor UAV directly from the air.

Unfair Advantage: Combines three unique capabilities in one platform—long-endurance reconnaissance, high-speed armed interception, and airborne deployment of secondary UAVs (iSpearX). Fully modular design allows rapid field replacement of motors, payloads, and communication modules under battlefield conditions.



MIT Dual-Use Readiness Model

TRL - 2
Technology Readiness Level

CCRL - 2, 3
Commercial Customer Readiness Level

CFRL - 3, 4
Commercial Funding Readiness Level

MCRL - 4
Mission Customer Readiness Level

MFRL - 5
Mission Funding Readiness Level

Defence Problem Statement & Use-Case

Problem: Armed forces face growing threats from diverse UAV types from slow surveillance drones to fast, agile loitering munitions. Current counter-UAV solutions often lack the flexibility to handle all threat profiles and operate effectively under EW conditions.

Use-case: ΔSpearX provides multi-layer defense: patrolling in electric mode for stealth surveillance, switching to turbojet mode for rapid interception, or releasing iSpearX interceptors for beyond-visual-range engagements. Capable of defending critical infrastructure, convoys, and forward operating bases, while also performing reconnaissance and SIGINT tasks.

Commercial Problem Statement & Use-Case

Problem: Civilian security and emergency response services lack fast-deployable, multi-role UAVs capable of both surveillance and direct threat neutralization. Multiple missions currently require multiple platforms, increasing cost and deployment time.

Use-case: ΔSpearX can patrol borders, monitor mass events, conduct SAR operations, assist fire services with aerial reconnaissance, and intercept unauthorized drones near airports or sensitive sites. The ability to carry and launch iSpearX enables rapid, targeted responses to airborne threats without endangering the primary UAV.

Goals & Milestones 3 Months

3 months Procurement of key components for the MVP, development of the final airframe design at Antonov Design Bureau, calculation and development of power units, development HW, SW, MD, Edge AI.

6 Months

Production prototype of UAV ΔSpearX, starting initial test of MVP.

2 Years

Start mass production for end users. Support. Developing new modifications.

Our expectations & what support do we need.

Funding(investment), sales (military contracts), networking.