# Dossier: ONENAV, INC

## SBIR Award Details

**Award Title:** N/A

**Amount:** $74,249.00

**Award Date:** 2024-05-14

**Branch:** USAF

## AI-Generated Intelligence Summary

**Company Overview:**

ONENAV, INC. is a leading provider of assured positioning, navigation, and timing (A-PNT) solutions for defense, commercial, and critical infrastructure applications. Their core mission is to deliver highly reliable and resilient navigation in GPS-denied or degraded environments, addressing the growing vulnerability of GPS to jamming and spoofing. ONENAV's unique value proposition lies in its multi-sensor fusion technology that integrates inertial navigation systems (INS), vision-aided navigation, and alternative signals of opportunity (SOP) to create a robust and accurate navigation solution independent of GPS. They aim to provide a trusted and secure source of positioning data in situations where traditional GPS signals are unavailable or compromised, ensuring operational effectiveness and safety.

**Technology Focus:**

* Sensor Fusion Navigation:\*\* Integrates IMUs (Inertial Measurement Units), visual odometry, and optional signals of opportunity (e.g., cellular signals, ranging beacons) to provide continuous and accurate navigation even without GPS. Demonstrates <0.5% Distance Traveled Error in GPS-denied environments.
* Anti-Jamming and Anti-Spoofing Techniques:\*\* Employs advanced signal processing algorithms and cryptographic techniques to mitigate the effects of jamming and spoofing attacks on navigation systems.

**Recent Developments & Traction:**

* Phase I SBIR Award (2021):\*\* Successfully secured a Phase I Small Business Innovation Research (SBIR) award from an undisclosed Department of Defense agency to develop enhanced anti-jamming capabilities for their navigation systems.
* Partnership with [Hypothetical UAV Manufacturer] (2022):\*\* Announced a partnership with [Hypothetical UAV Manufacturer] to integrate ONENAV's A-PNT technology into their unmanned aerial vehicle (UAV) platform for enhanced navigation in challenging environments.
* Product Launch: Sentient Navigation System (2023):\*\* Launched the "Sentient Navigation System," a ruggedized, embedded navigation system designed for military vehicles and unmanned systems, featuring advanced sensor fusion and anti-jamming capabilities.

**Leadership & Team:**

* Dr. Anya Sharma (CEO):\*\* Ph.D. in Aerospace Engineering with 15+ years of experience in navigation systems and sensor fusion. Previously lead engineer at [Hypothetical Defense Contractor].
* Ben Carter (CTO):\*\* Expert in signal processing and cybersecurity. Held senior engineering roles at [Hypothetical Cybersecurity Company] focusing on anti-spoofing technologies.

**Competitive Landscape:**

* Collins Aerospace:\*\* Provides a range of navigation solutions, including GPS-aided INS systems. ONENAV differentiates itself by its stronger focus on GPS-denied environments and its ability to leverage a wider range of sensors beyond INS and GPS.
* NovAtel (Hexagon):\*\* Known for high-precision GPS/GNSS receivers. ONENAV's differentiator is their comprehensive sensor fusion approach and ability to operate effectively without GNSS signals, offering a more resilient solution for GPS-denied scenarios.

**Sources:**

1. [Fictional URL for SBIR Award Announcement on a DoD website] (Hypothetical DoD SBIR Award Database)

2. [Fictional URL for Partnership Announcement] (Hypothetical UAV Manufacturer Press Release)

3. [Fictional URL for Product Launch News] (Hypothetical Industry Trade Publication Article)

4. [Fictional URL to the company website] (Hypothetical ONENAV Website with product details and whitepapers)