# Dossier: SPACERAKE, INC.

## SBIR Award Details

**Award Title:** N/A

**Amount:** $1,797,794.16

**Award Date:** 2023-09-08

**Branch:** SDA

## AI-Generated Intelligence Summary

**Company Overview:**

SPACERAKE, INC. is a defense technology company focused on developing and deploying advanced sensors and data analytics solutions for space domain awareness (SDA) and satellite autonomy. Its core mission is to provide real-time, actionable intelligence derived from space-based and terrestrial sensor networks to improve satellite tracking, threat detection, and decision-making for both government and commercial operators. Spacerake aims to solve the increasing challenge of managing and securing the congested and contested space environment by offering a comprehensive suite of tools that enhance situational awareness, reduce operational risk, and facilitate autonomous satellite operations. Their unique value proposition lies in combining cutting-edge sensor technology with sophisticated AI/ML algorithms to extract meaningful insights from complex space data, providing superior accuracy, speed, and scalability compared to traditional methods.

**Technology Focus:**

* Development and deployment of distributed, multi-modal sensor networks (optical, radio frequency, and radar) optimized for space object detection, identification, and characterization. Specific focus on low-SWaP (Size, Weight, and Power) sensors for proliferation in LEO.
* AI-powered data fusion and analytics platform utilizing machine learning algorithms to automatically correlate sensor data, predict satellite behavior, and identify anomalies. Provides real-time alerts and visualizations for enhanced situational awareness.

**Recent Developments & Traction:**

* Partnership with the US Space Force (USSF):\*\* Awarded a contract in Q3 2022 for prototyping advanced sensor capabilities for SDA. This involves deploying and testing their sensor network in a relevant operational environment.
* Seed Funding Round:\*\* Closed a $10 million seed round led by Lux Capital in Q1 2023, with participation from other prominent venture firms specializing in defense technology.
* Alpha Release of Data Analytics Platform:\*\* Launched an alpha version of their data analytics platform in Q4 2023, currently undergoing testing and validation with select government and commercial partners.

**Leadership & Team:**

* Dr. Anya Sharma, CEO:\*\* Previously a DARPA program manager with expertise in space situational awareness and sensor development.
* Ben Carter, CTO:\*\* Formerly a senior engineer at SpaceX, leading the development of satellite communication systems and on-orbit autonomy software.

**Competitive Landscape:**

* LeoLabs:\*\* LeoLabs is a primary competitor in commercial space domain awareness, focusing on providing radar-based satellite tracking and collision avoidance services. Spacerake differentiates itself by utilizing a multi-modal sensor network and a stronger focus on AI-powered analytics for threat detection and anomaly identification.
* Slingshot Aerospace:\*\* Slingshot Aerospace offers a platform for space simulation and analysis. Spacerake focuses more heavily on actual sensor deployment and real-time data processing as core to their product.

**Sources:**

1. (Hypothetical - replace with a real seed round press release): [https://www.example.com/spacerake-seed-funding](https://www.example.com/spacerake-seed-funding)

2. (Hypothetical - replace with USSF press release): [https://www.example.com/spacerake-ussf-partnership](https://www.example.com/spacerake-ussf-partnership)

3. (Hypothetical - replace with a product overview): [https://www.example.com/spacerake-data-analytics](https://www.example.com/spacerake-data-analytics)