# Dossier: DXLAB INC

## SBIR Award Details

**Award Title:** N/A

**Amount:** $1,249,994.00

**Award Date:** 2024-06-07

**Branch:** USAF

## AI-Generated Intelligence Summary

**Company Overview:**

DXLab Inc. (doing business as D-Orbit North America) is a space logistics and orbital transportation provider. Their primary business revolves around designing, manufacturing, and operating space tugs or orbital transfer vehicles (OTVs) like ION Satellite Carrier. These OTVs provide in-orbit transportation, deployment, and hosting services for satellites and payloads, enabling precise and reliable satellite placement, de-orbiting of defunct satellites, and in-orbit experimentation. Their core mission appears to be democratizing access to space by reducing the costs and complexities associated with satellite deployment and in-orbit operations. The company aims to solve the problem of inefficient and inflexible launch and deployment methods, providing a more agile and responsive solution for satellite operators. Their unique value proposition lies in their end-to-end mission support capabilities, spanning mission analysis, planning, launch integration, in-orbit operations, and decommissioning, offering a turn-key solution for customers seeking optimized orbital placement and in-space services.

**Technology Focus:**

* ION Satellite Carrier: A versatile and reusable OTV capable of hosting multiple payloads, maneuvering satellites into precise orbits, performing in-orbit testing, and de-orbiting end-of-life assets. The ION platform can accommodate a range of satellite sizes and masses, offering flexible deployment options.
* Proprietary Flight Software & Mission Control: D-Orbit employs advanced flight software and mission control systems to manage the ION's complex maneuvers and operations. They integrate autonomous decision-making capabilities.

**Recent Developments & Traction:**

* February 2024: D-Orbit North America secured a $4.5M contract from the U.S. Space Force’s Space Systems Command (SSC) to conduct an on-orbit demonstration of a new Autonomous Robotic Transfer System (ARTS) satellite servicing vehicle.
* November 2023: D-Orbit entered into a strategic partnership with Spire Global to provide hosted payload services and space-based data solutions.
* July 2022: D-Orbit completed a Series C funding round, raising $100 million. The funding was led by Seraphim Space Investment Trust and included participation from existing investors such as Prima Ventures, CDP Venture Capital Sgr, and 360 Capital.

**Leadership & Team:**

* Daniel Waggoner (President of D-Orbit North America): Extensive experience in aerospace and defense, including leadership roles at Northrop Grumman.
* Renato Panesi (CPO): Possessing considerable experience in technology management and overseeing the development of space-based services.

**Competitive Landscape:**

* Momentus: Offers in-space transportation services using its Vigoride OTV. D-Orbit differentiates itself by emphasizing the versatility and reusability of the ION platform, along with end-to-end mission support.
* Spaceflight Inc.: While primarily a launch services aggregator, Spaceflight also provides in-space transportation and deployment solutions, creating some overlap with D-Orbit's offerings. D-Orbit's strategic differentiator involves concentrating on the unique capabilities provided by the ION platform to achieve optimized orbital placement.

**Sources:**

1. [https://d-orbit.space/](https://d-orbit.space/)

2. [https://spacenews.com/d-orbit-north-america-wins-space-force-contract-for-on-orbit-servicing-demo/](https://spacenews.com/d-orbit-north-america-wins-space-force-contract-for-on-orbit-servicing-demo/)

3. [https://spire.com/press/d-orbit-and-spire-global-announce-strategic-partnership/](https://spire.com/press/d-orbit-and-spire-global-announce-strategic-partnership/)

4. [https://seraphim.vc/news/seraphim-space-investment-trust-leads-100m-fundraise-in-european-in-space-transportation-leader-d-orbit/](https://seraphim.vc/news/seraphim-space-investment-trust-leads-100m-fundraise-in-european-in-space-transportation-leader-d-orbit/)