NearSpace Launch inc.
CAPABILITIES STATEMENT

COMPANY INFORMATION

Founder/CEO: Hank Voss

Founder/Chief Engineer Jeff Dailey

Phone: 765-998-8942

Email: nsl@nearspacelaunch.com

Website: nearspacelaunch.com

D-U-N-S: 078840927

Cage Code: 73LC4

Address: 8651E. 700 S. Upland, IN

COMPANY OVERVIEW

NSL manufactures and produces ThinSats, CubeSats, Black Boxes, and Globalstar enabled communication systems (EyeStar radios) for a variety of commercial, governmental, and educational applications. NSL was founded following the successful mission of TSAT with Globalstar. The mission proved one could effectively connect 24/7 to an NSL EyeStar radio via the Globalstar constellation.

QUALITY ASSURANCE

- iso9001: Quality management systems.
- FCC: Part 15, 25 Compliant.
- MIL-SPEC parts: 300 hour steady state burn in at 20c.

OUR PRODUCTS

- **Fastbus CubeSats (12U, 6U, 3U, 2U, 1U)**
- **ThinSat Constellations (1/7U, 3U, 6U)**
- **EyeStar Black-Box (patch & standard)**
- **EyeStar Radio (Simplex S3 & D2 Duplex)**

OUR CUSTOMERS

- NASA
- Air Force
- NovaWurks
- Spaceflight
- Boston University
- Millenium Space Systems
- Nanoracks
- Colorado State
- Department of Defense
- The Weiss School
- Rocket Lab
- DARPA

NOTABLE PERFORMANCES

- 375+ systems and sub-systems in orbit in five years
- Launched 60 ThinSats Constellation on April 17, 2019
- Mission success rate: 100%
- Awarded Black Box AF SIBR Phase II Space Debris, Mission Success
- Enabled first SmallSat communication link to GlobalStar Constellations allowing for 24/7 connection to satellite.
- Built FastBus Satellite in 45 days for DOD customer

OUR WHITE PAPERS PUBLICATIONS

- **Architecture & Manufacture for 1/7U to 27U 60 ThinSat Constellations: Flight Results**
- **"Black Box" Beacon for Mission Success, Insurance, and Debris Mitigation**
- **Globalstar Link: From Reentry Altitude and Beyond**
- **TSAT Globalstar ELaNa-5 Extremely Low-Earth Orbit (ELEO) Satellite**
- **Globalstar Communication Link for CubeSats**

PRODUCT DESCRIPTIONS

FastBus CubeSat

Choose a Fastbus from our 12U, 6U, 3U, 2U and 1U rigid unibody structures. This platform is a turnkey solution, offering your project solar arrays, electrical power systems, certified LiPoly batteries with protection, Globalstar 24/7 simplex radio and antenna, ground station, harness, and inhibit switches. This will catapult you to a technology readiness level of 7-9 for subsystems.

Heritage: Launched 8 FastBus satellites with 100% mission success.
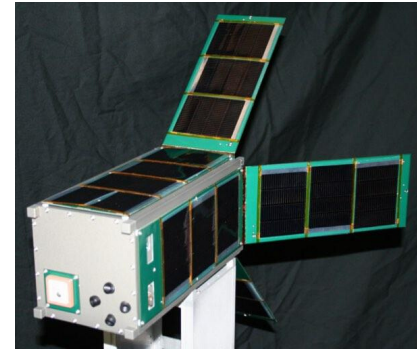
ThinSat Constellation

ThinSats enable advanced manufacturing and multi point capabilities as well as provide a cost effective means of getting research into space. This makes them perfect for sensor testing, ground station calibration, or any variety of educational or commercial missions. The ThinSats contain all of the vital flight components of a FastBus CubeSat (EPS, EyeStar™ radio, battery, flight processor, etc.) all in the scaleable body of the ThinSat 3U, 6U, 12U options.

Heritage: The first wave of 60 ThinSats launched April 17, 2019, second constellation manifested for October 2020.
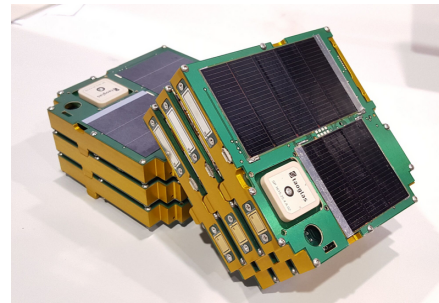
Eyestar Black Box

NearSpace Launch Inc. is now providing a Black Box for satellites. The Black Box is an attached barnacle that provides an independent live feed of diagnostics and telemetry for Mission Success, Risk Mitigation and Space Debris. The industry mission success rate is 77%. NSL has a 100% success rate with heritage of over 60 systems and customers across the DOD and industry.

Heritage: Spaceflight Black Box Standard 4 Black Box Patches manifested for 2020.

Eyestar Radio

As the first space VAR for Globalstar, NSL offers the simplex communication systems authorized to interface with Globalstar's comprehensive international network for the small satellite/aerospace industry. This means that when you choose EyeStar, you are leveraging over 32 satellites in the Globalstar network, providing a high level of connectivity in LEO 24/7.

Heritage: 90+ Eyestar Radios in orbit in the past 5 years.

NearSpace Launch, Inc®
Technology. Service. Education