

NearSpace Launch Inc. (NSL)
8651 E 700 S
Upland, IN 46989
United States of America

60 ThinSat Constellation focused on STEM

Scheduled to launch April 17th

April 15, 2019

Wallops Island, VA – [Virginia Commercial Space Flight Authority \(VCSFA\)](#) is manifested to launch 60 ThinSats in partnership with [Twiggs Space Lab, LLC \(TSL\)](#), and [NearSpace Launch Inc. \(NSL\)](#) on April 17, 2019.



Figure 1: Illustration of ThinSat deployed in 3-string and 6-string arrays

The ThinSat is a new pioneering model for satellites that are scalable, simpler, and more affordable. Their focus is to broaden access to space for educational and research participants. They have worked with over 60 schools in training, testing and delivering payloads for Low Earth Orbit (LEO).

Co-Inventor of the CubeSat, Bob Twiggs, states, “Our goal is to inspire future generations of engineers and scientists through innovation in the field of space.” Twiggs goes further to say, “To me, this is absolutely the most exciting thing in this whole satellite business.”

The ThinSat comes in an array of sizes that comply with the CubeSat launcher. The 11.2 cm by 11.7 cm by 2 cm ThinSat version will be the first model to launch this week. The ThinSat team choose to use EyeStar radios and Alta Devices solar technology. The NSL’s EyeStar radios allow for 24/7 connectivity via Globalstar’s constellation. Alta Devices solar cells provide a unique modular, lightweight, flexible form factor with high efficiency characteristics.

NearSpace Launch Inc. (NSL)
8651 E 700 S
Upland, IN 46989
United States of America

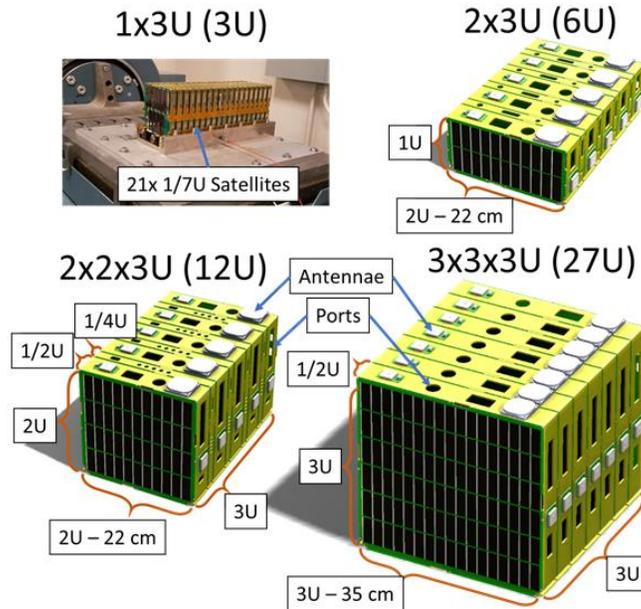


Figure 2: Scalable models of ThinSat from 3U to 27U in size.

The ThinSat inventor and co-founder of NSL, Hank Voss states, “ThinSats will travel in a region of the atmosphere that is important to climate and weather forecasts, but rarely studied because atmospheric drag makes it hard to keep satellites there,” Voss also expressed. As an emeritus professor, he is “thankful to Virginia Space and Twiggs Space Labs for funding and managing the project that has a such strong STEM outreach.”

About NearSpace Launch, Inc.

[NearSpace Launch, Inc.](http://www.nearspacelaunch.com) (NSL) based in Upland, IN. NSL has 100% mission success with over 60 systems flown in the past four years. Hank Voss & Jeff Dailey founded NSL following the successful mission of TSAT. The mission proved the effectiveness of a Globalstar radio connection for orbital radio communication. NSL manufactures and produces ThinSats, custom Cubesat satellites, Globalstar enabled communication systems, and high-altitude balloons for a variety of educational, commercial, and government applications. NSL’s FastBus heritage is 7 out of 7 flying their missions, and many more radios and components excelling at their respective mission tasks. For more information, visit www.nearspacelaunch.com

NearSpace Launch Inc. (NSL)

8651 E 700 S

Upland, IN 46989

United States of America

About Twiggs Space Lab

[Twiggs Space Lab LLC \(TSL\)](#) is focused on creating STEM based products and curriculum to stimulate, engage, and encourage students to pursue interests in science, technology, engineering, arts, and math. The company's mission is to inspire future generations of engineers and scientists to make the world a better place through innovative research in space. Prof. Twiggs was a consulting professor at Stanford University Department of Aeronautics and Astronautics starting in 1994 where he established the Space Systems Development Laboratory. While at Stanford in 1999, he was the co-developer of the CubeSat concept. Prof. Twiggs was also the creative mind responsible for developing the original concepts for the CricketSat, CanSat, and the PocketQube for educational applications for use in space. Prof. Twiggs has published numerous papers and made dozens of presentations at technical conferences in the US and internationally.

About Alta Devices

[Alta Devices](#) is (EM)POWERING THE UNPLUGGED WORLD™ by delivering the world's most efficient, thin and flexible mobile power technology. By converting light of any kind into electricity, Alta Devices AnyLight™ power technology extends the energy source of a system, and in many cases, completely cuts the traditional power cord. The solution can be completely integrated into the final system, and is ideal for use in small satellites, unmanned systems, consumer electronics, sensors, automotive, remote exploration, or anywhere size, weight, and mobility matter. Alta Devices holds world records for energy conversion efficiency and is headquartered in Sunnyvale, CA. For more information, visit <http://www.altadevices.com>. Alta Devices is a Hanergy company.