

NEWSPACE MARKET · COMPANY PROFILE



Orbit NTNU

Norway · founded 2018 · orbitntnu.com

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as of 20 August 2026



Orbit NTNU

Orbit NTNU designs, builds, and operates small satellites. The organization develops Attitude Determination and Control System (ADCS) algorithms, electrical systems including circuit boards and power delivery, and embedded software for satellite main computers. They also handle structural, thermal, and mechanical aspects of satellites, including 3D modeling, component design, and simulations. Orbit NTNU develops payloads, such as systems for plant growth in space, and maintains ground stations for satellite communication. They have product lines including SelfieSat, FramSat, and BioSat. Their customers are not specified, but they are a student organization providing hands-on experience. They are headquartered at the Norwegian University of Science and Technology (NTNU) in Norway. Founded in 2018, Orbit NTNU has 104 active members and 50 mentors, totaling 154 dedicated individuals. They have undertaken projects like SelfieSat, FramSat, and BioSat, and offer a SubOrbital program for first-year students to build small satellites for release into the stratosphere.

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SERVICES

Services

CubeSat Testing and Evaluation

A specialized team conducts various tests and evaluations on CubeSat spacecraft to ensure correct functionality and mission objective fulfillment before launch.

Ground Station Maintenance and Satellite Operations Center Implementation

The SatCom team maintains the ground station and implements the satellite operations center, routing commands and telemetry between ground and satellite.

Satellite Attitude Determination and Control Algorithm Development

The ADCS team develops algorithms for spacecraft to determine its orientation and control its rotation using onboard sensors.

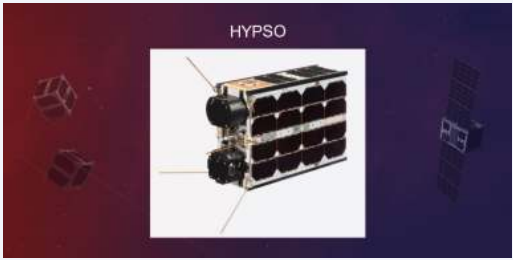
Satellite Design and Simulation (Structural, Thermal, Mechanical)

The mechanical team designs and simulates structural, thermal, and mechanical aspects of satellites, ensuring integrity against environmental hazards.

Satellite Subsystem Integration and Coordination

Orbit NTNU's Systems Engineering team coordinates various teams to ensure satellite subsystems fit together, resulting in a complete and fully functional satellite.

Product catalogue



ORBIT NTNU

HYPSON-1

6U CubeSat developed by Orbit NTNU carrying a hyperspectral pushbroom camera for ocean color monitoring and algal bloom detection. Launched in February 2022 on a SpaceX Transporter

Form Factor	6U CubeSat
Launch Date	February 2022
Launch Vehicle	SpaceX Falcon 9 (Transporter-3)
Orbit	Sun-synchronous orbit (SSO)
Payload	Hyperspectral pushbroom imager (400–800 nm)
Mission	Ocean color monitoring, algal bloom detection

price on request

Contact Orbit NTNU

Open the company profile on NewSpace Market to see full specifications and datasheets, and to send a request for quotation that reaches the manufacturer directly.

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