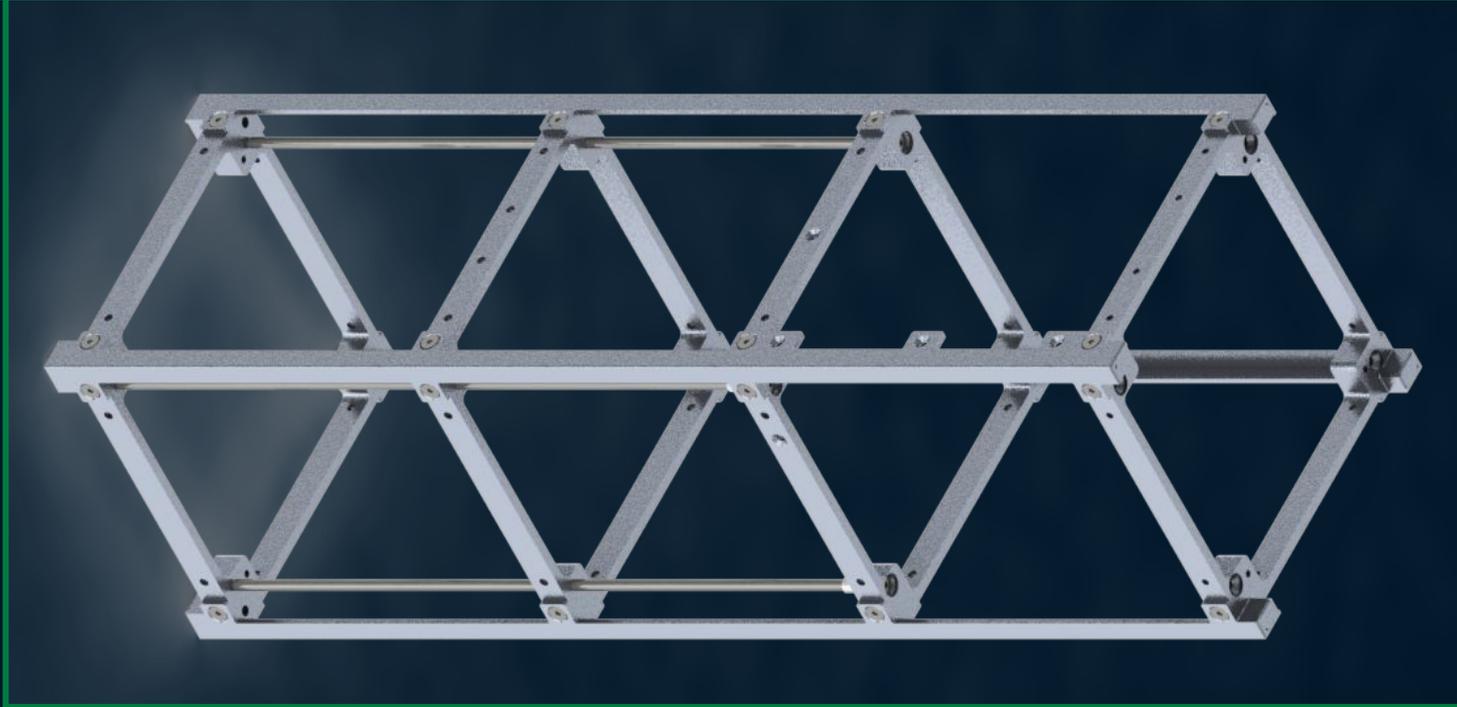


The logo for AlbertaSat features a stylized satellite or orbital path. It consists of two white elliptical orbits that intersect at two points, forming a figure-eight shape. A green line, representing a satellite or a specific orbital path, is overlaid on the white orbits, starting from the bottom left and curving upwards and to the right.

AlbertaSat



Icarus: the backbone of Alberta's satellites



Ex-Altia 1: the space weather satellite

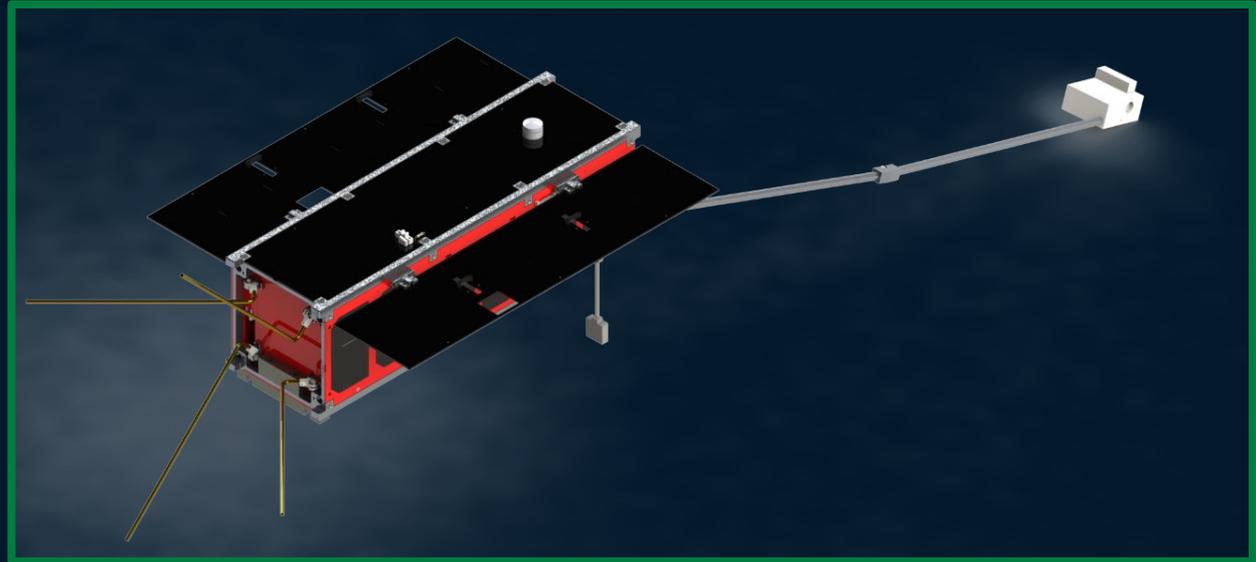


The scientific purpose of Ex-Altia 1 was to monitor space weather.

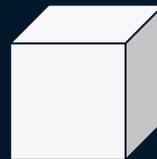
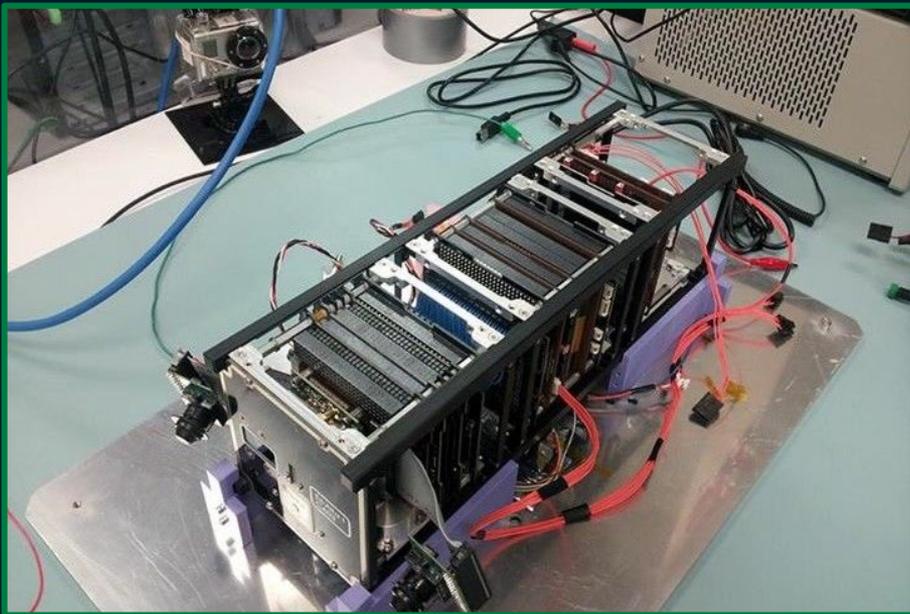


Ex-Alta 2: the wildfire camera

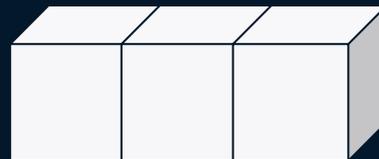
The scientific purpose of Ex-Alta 2 is to track and assess wildfires, and to predict the behaviour of future wildfires.



Cube satellites



1U



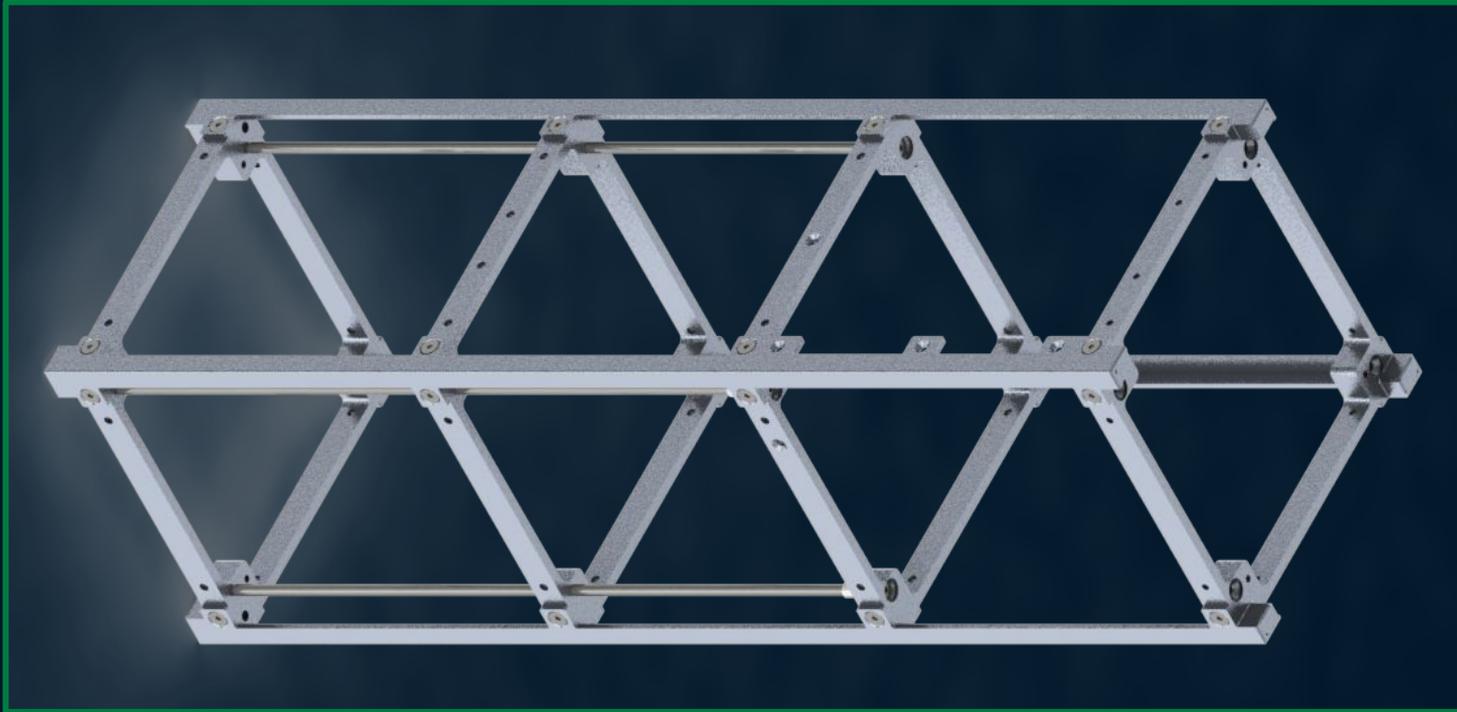
3U



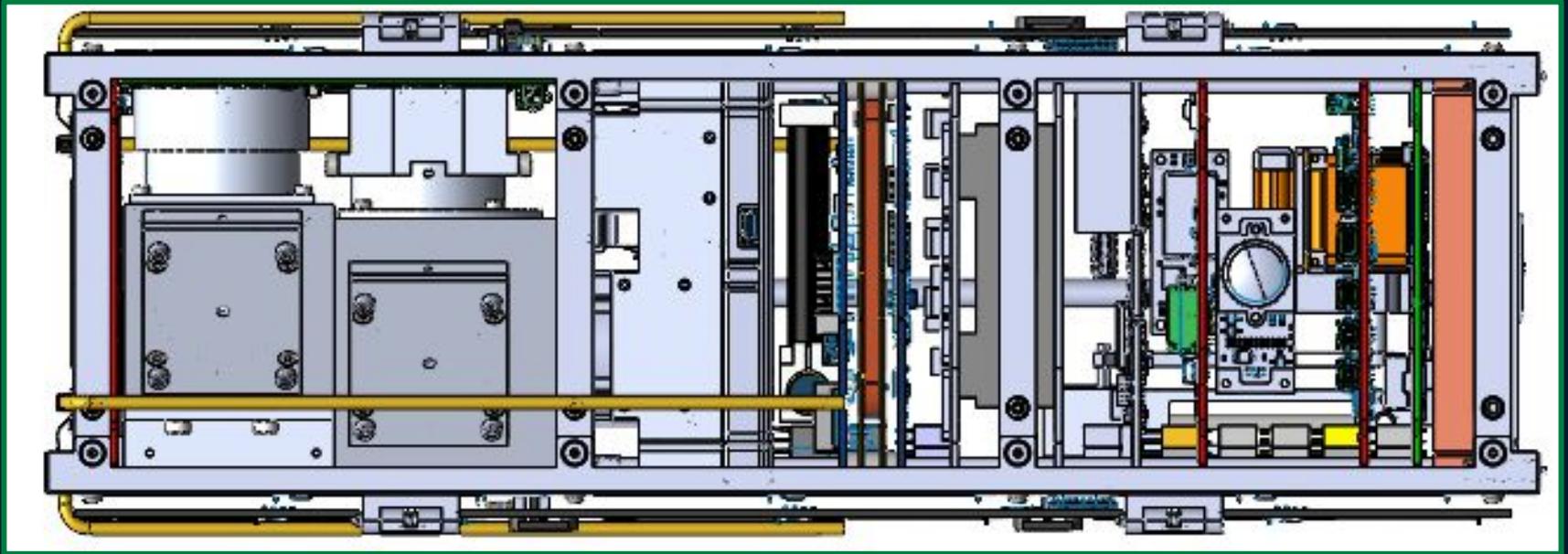
Bread



Icarus



The importance of the structure

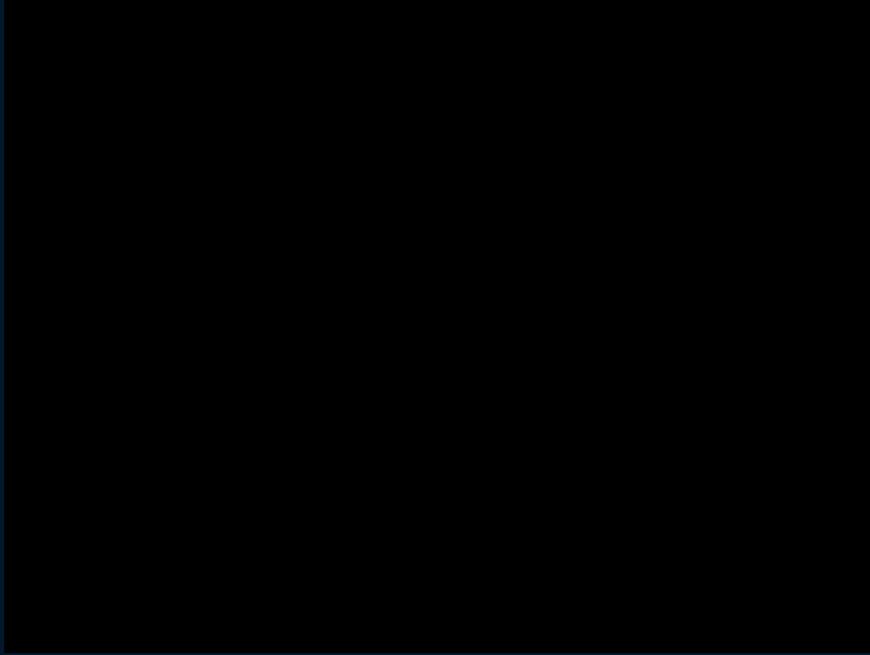


Icarus flies high!

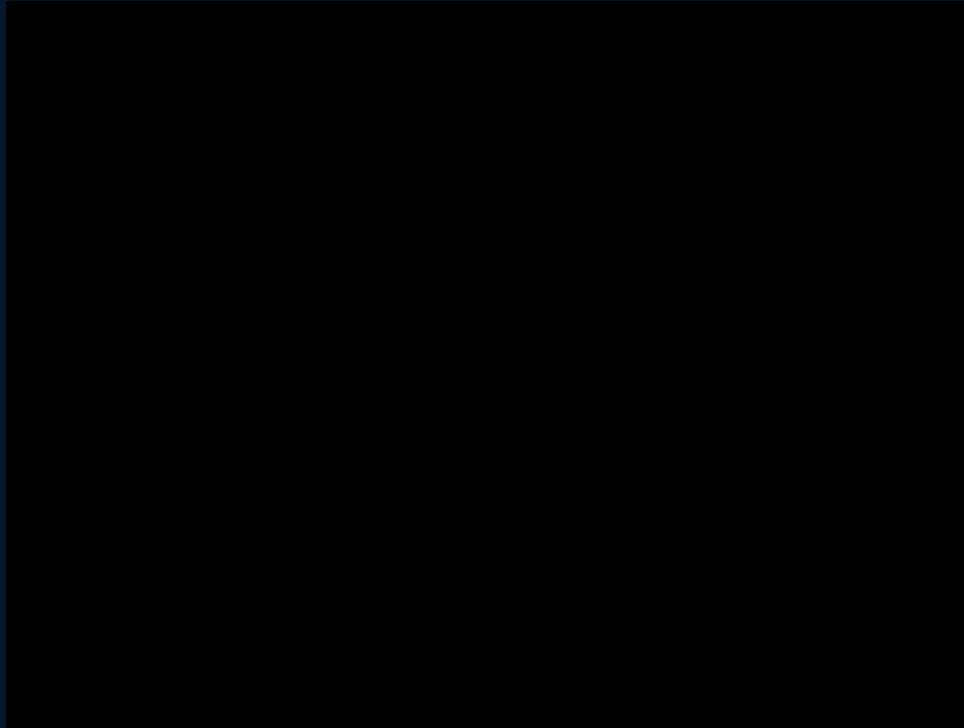
Ex-Altá 1



Vibration testing



Centrifugal Testing



Now, imagine you are on a team chosen by the Canadian Space Agency and they need you to work together and **build a cube satellite structure** that is **very strong** and that will **fit in the nanoracks**.

ACTIVITY

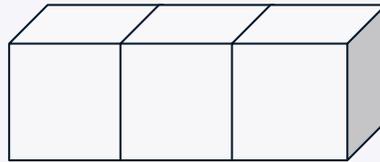


Let's build a structure!



It needs to be **STRONG** and have plenty of **SPACE INSIDE** for instruments.

The cubeSat should be no bigger than
10cm by 10cm by 30cm



3U

