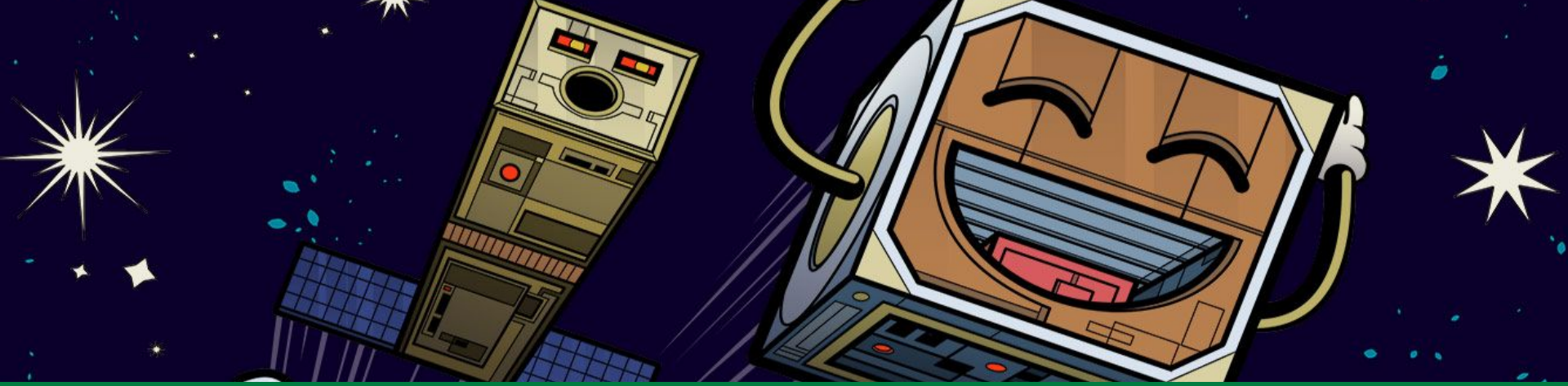


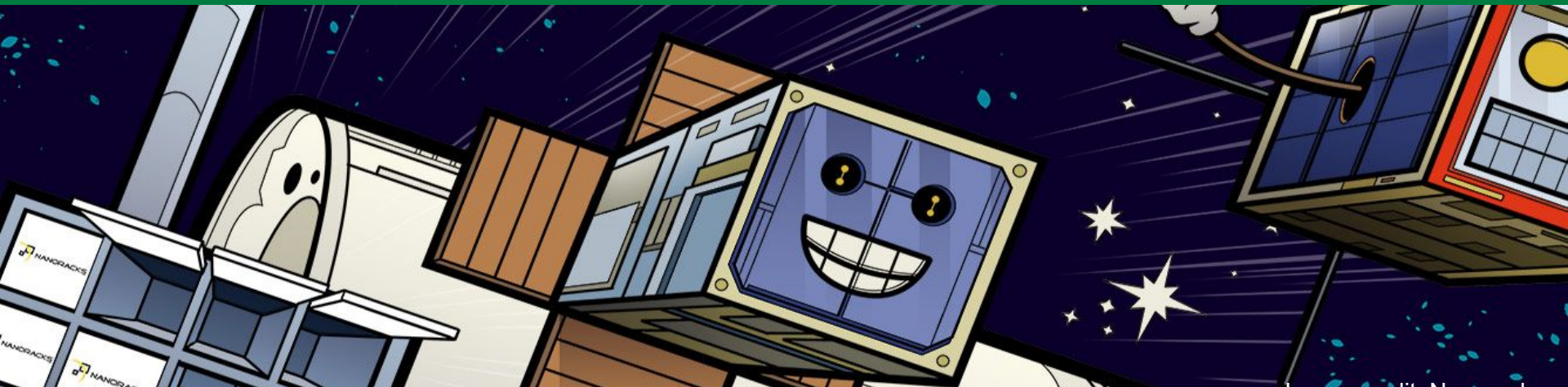
The logo for AlbertaSat features a stylized satellite or orbital path. It consists of two white elliptical orbits that intersect at two points. A green line, representing a satellite or a specific orbital path, is superimposed over the white orbits, starting from the bottom left and curving upwards and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

AlbertaSat





CubeSat Structure with AlbertaSat

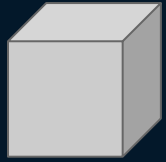


We are a student group who builds satellites

Ex-Altá 1



Cube satellites



1U



3U



Bread

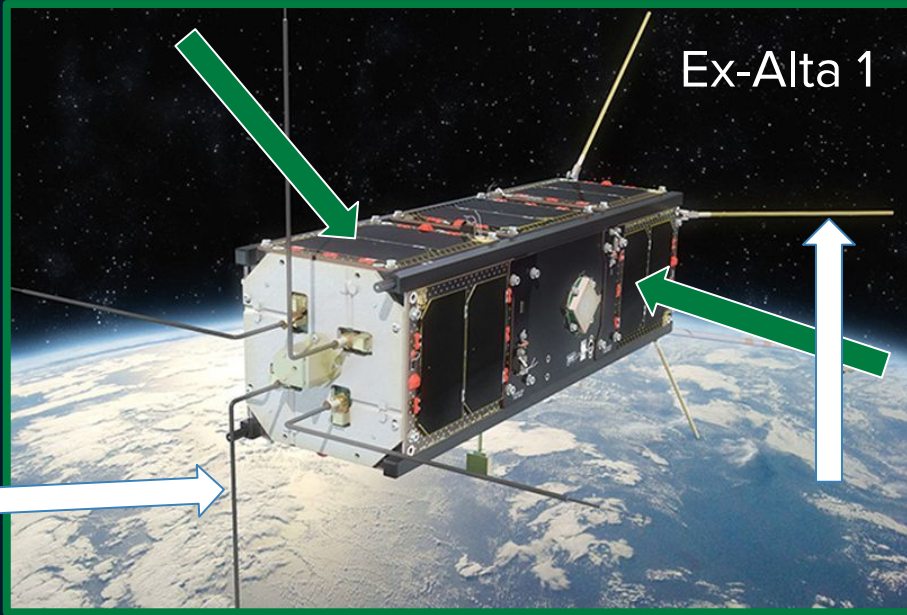
...



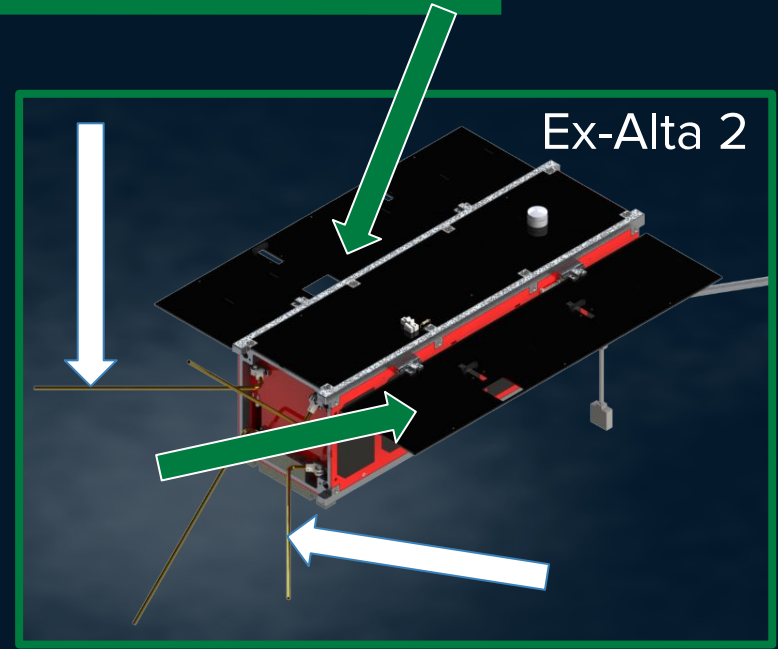
12U



Satellites need power and communication



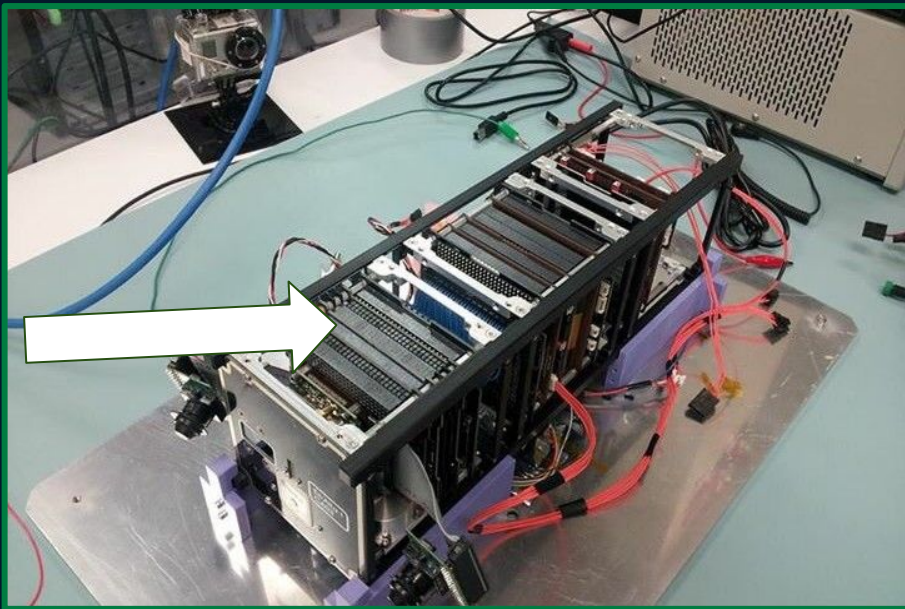
What are these? **SOLAR PANELS**



What are these? **ANTENNAS**



The Motherboard

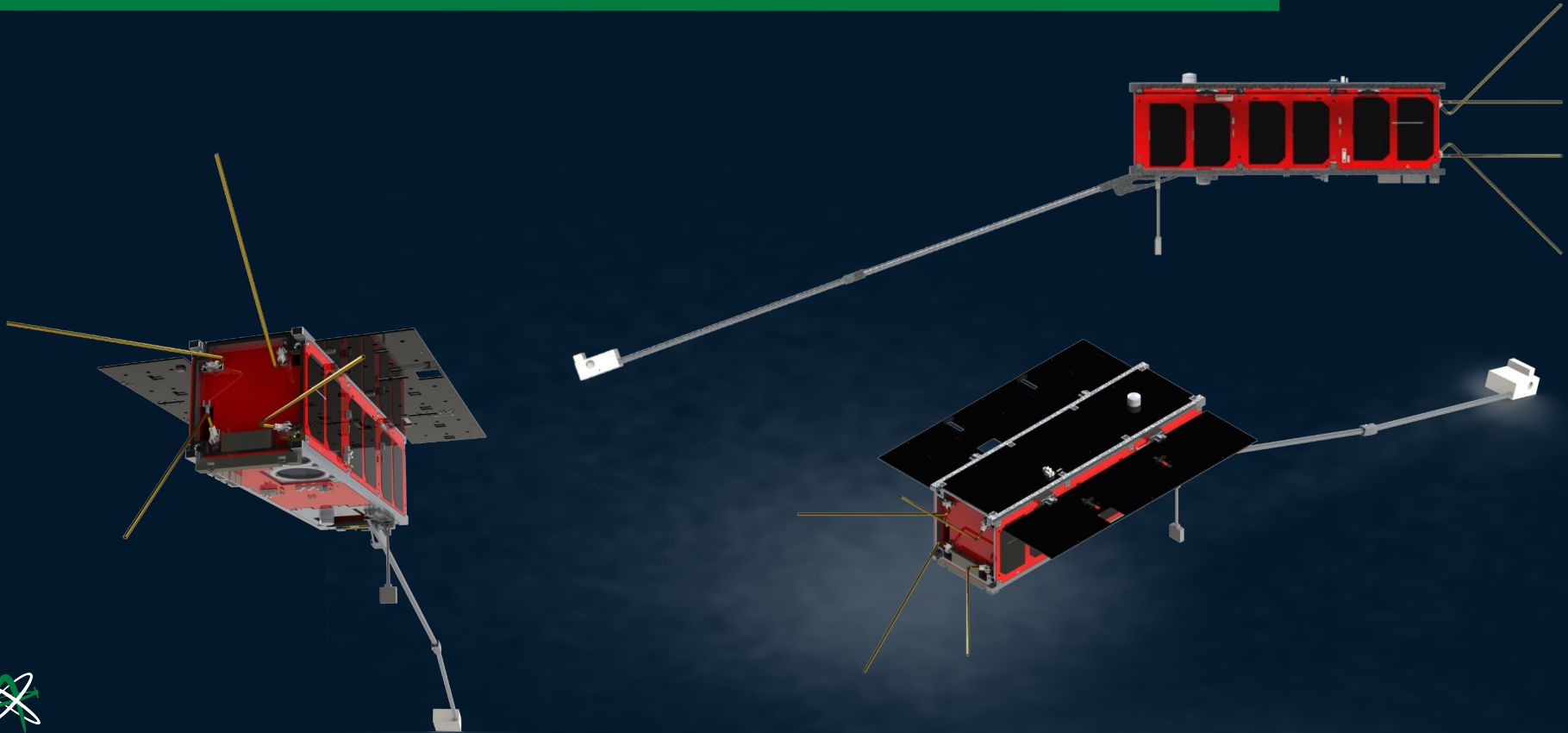


Inside the satellite we have the **computer**



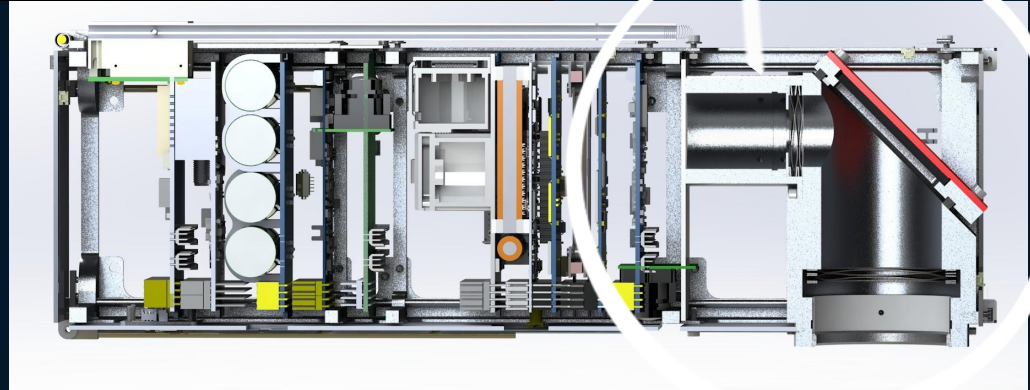
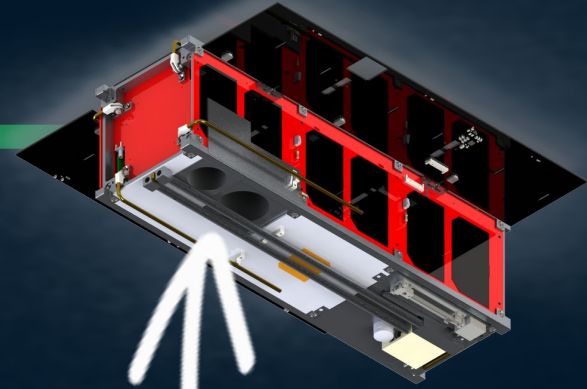
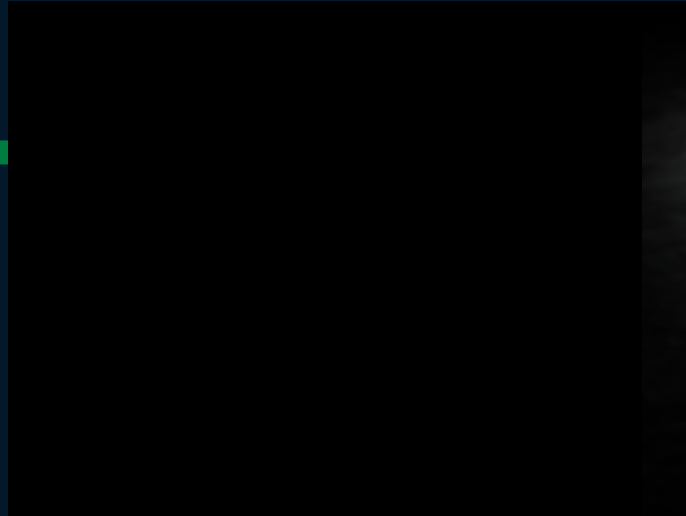
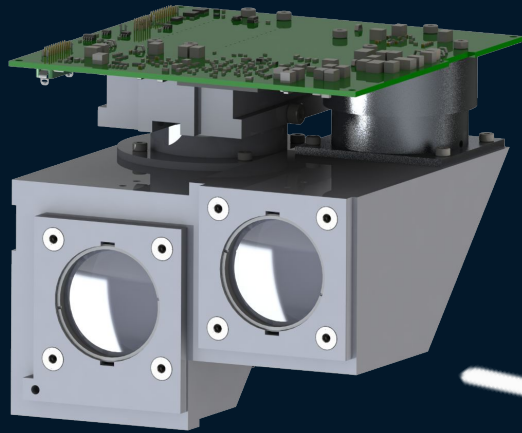


Ex-Altas 2: The wildfire camera



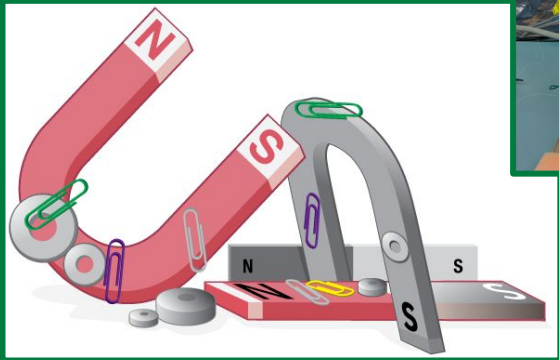
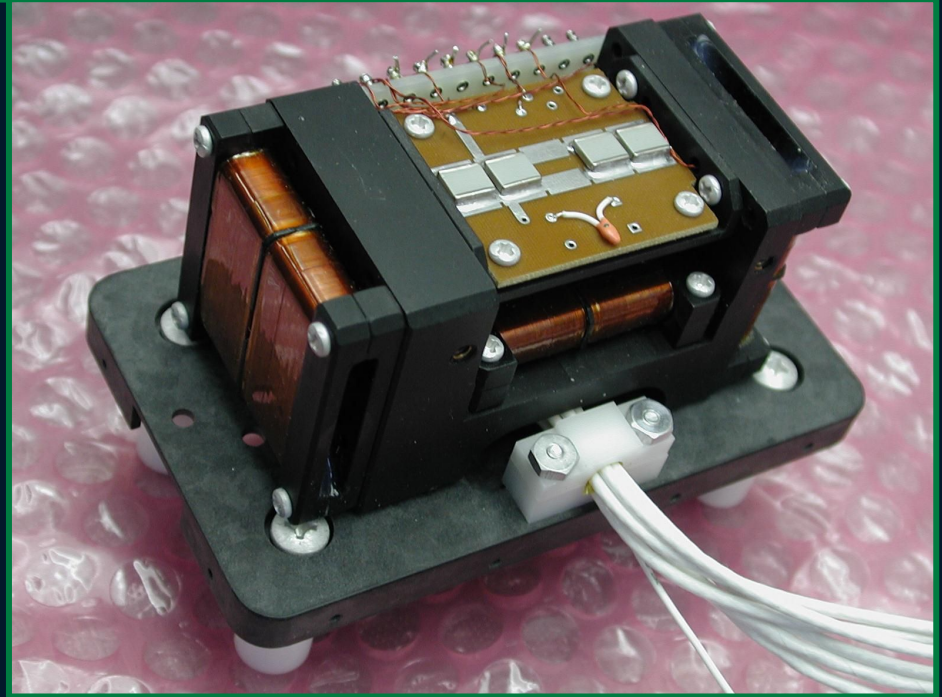
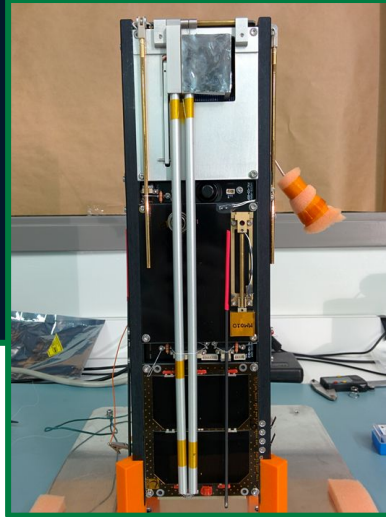
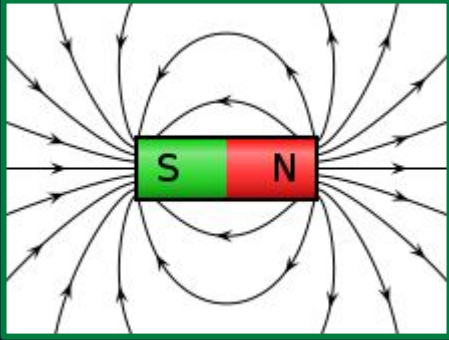
Payload

Iris Imager:
Camera that monitors
forest fires

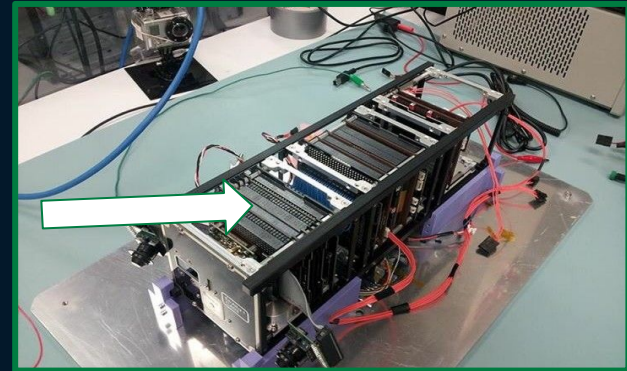
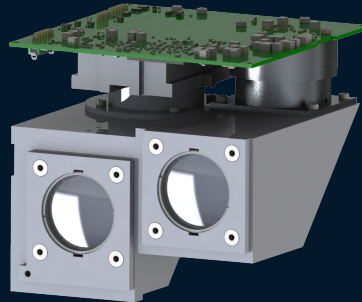
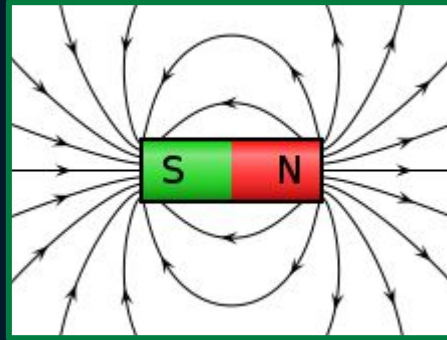
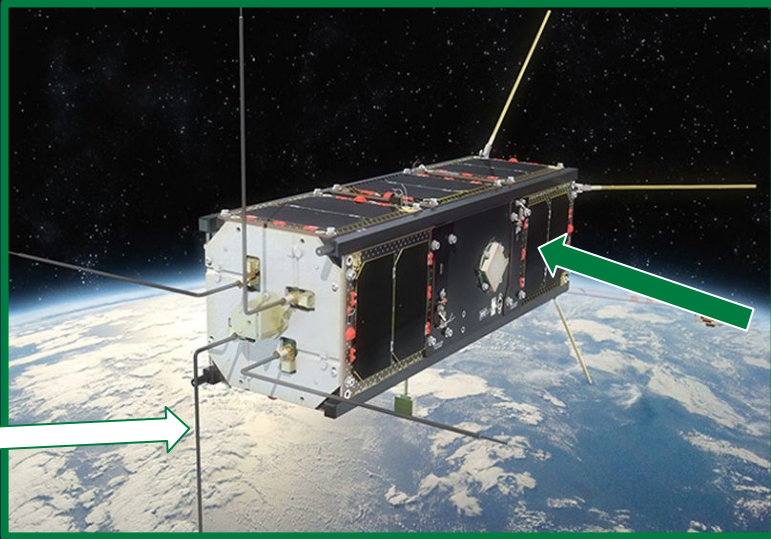


Magnetometer

measures magnetic fields



What things does a satellite need?

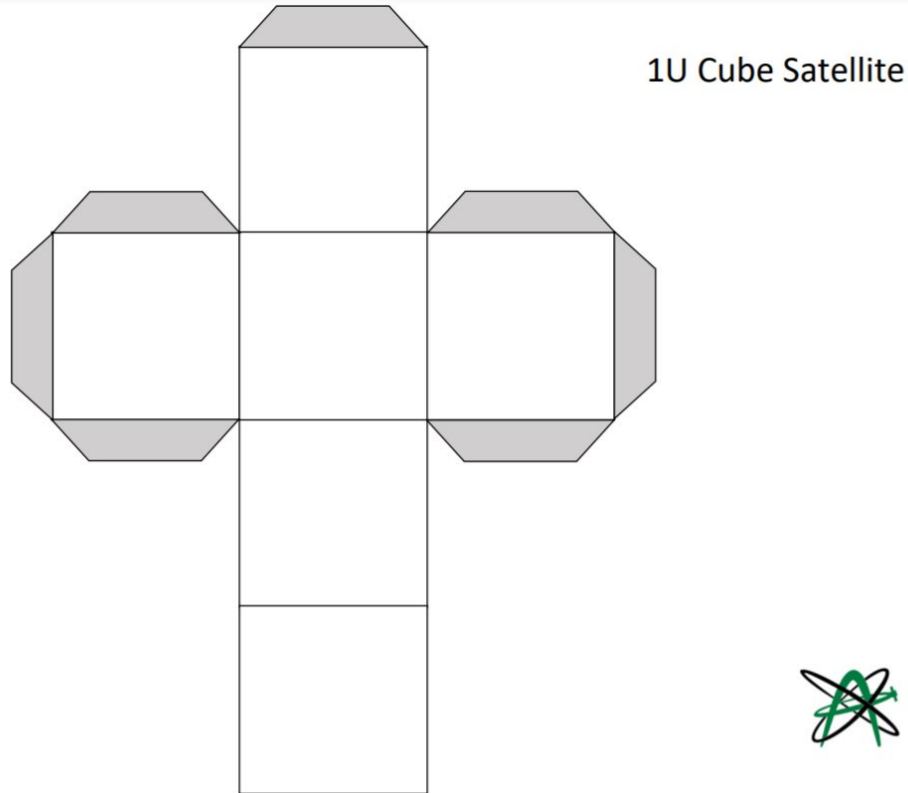


Imagine that you work for the Canadian Space Agency and you need to **design a satellite** and make a **model** of what you want it to look like!

ACTIVITY



Step 1: Assemble the structure



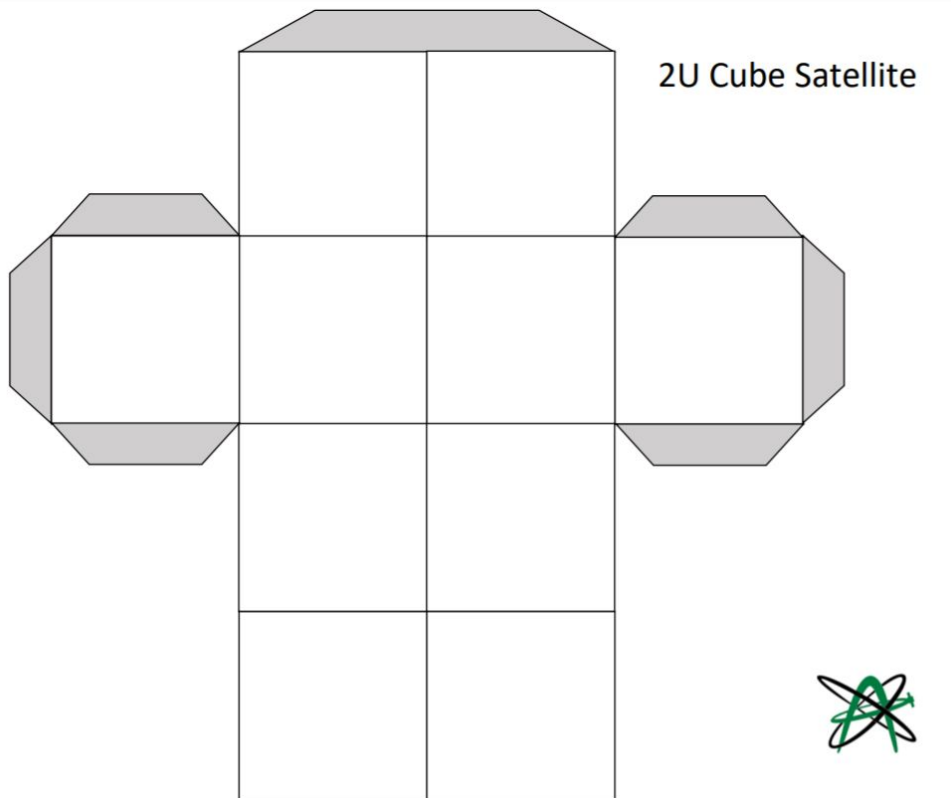
Cut along the outermost edge of the shape

Fold along the solid lines

Glue the gray flaps to secure the structure into a cube (a 1U satellite)



Step 1: Assemble the structure

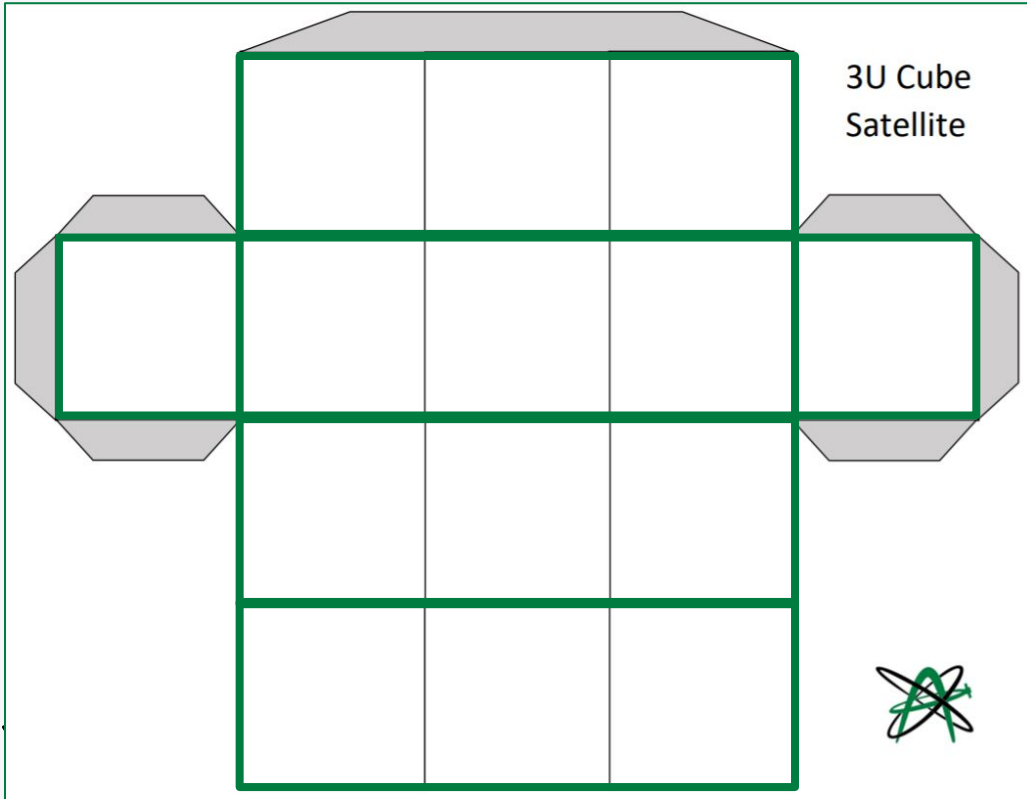


Cut along the outermost edge of the shape

Fold along the solid lines

Glue the gray flaps to secure the structure into a rectangular prism (a 2U satellite)

Step 1: Assemble the structure

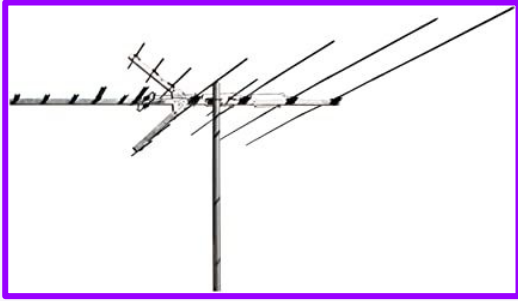


Cut along the outermost edge of the shape

Fold along the green lines

Glue the gray flaps to secure the structure into a rectangular prism (a 3U satellite)

Step 2: Create your design!

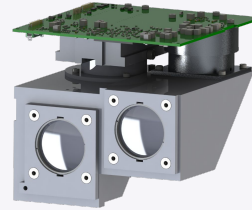


A way to communicate

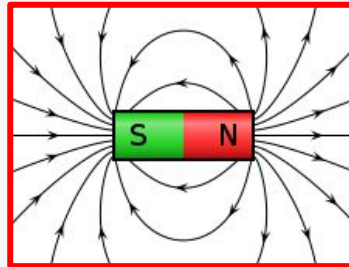


A source of power

A reason to be
in space



A way to orient itself



A way to control
everything



Examples



The logo for AlbertaSat features a stylized satellite or orbital path icon. It consists of two white elliptical orbits intersecting at a central point, with a green line representing a satellite or a specific orbital path. The text "AlbertaSat" is written in a clean, white, sans-serif font to the right of the icon.

AlbertaSat

