

**Building Dreams in Talented Adolescents and
Fostering Collaboration for Space Silk Road**

Belt and Road Teenager

Space Maker Camp

(2021)



“一带一路”青少年创客营与教师研讨活动
Belt and Road Teenager Maker Camp & Teacher Workshop

Title: Engineering Notes Regarding:

**Remote-Sensing CubeSat to measure earth' s temperature
and greenhouse gas pollution**

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1. Functional Description

Our specific design for CubeSat:

Idea: We can add some temperature sensors to our CubeSat, we are going to use these sensors to measure the earth's temperature by location. Then we can look for each glacier that is at risk of getting melt.

When we find those places we can discuss ecosystemic problems.

When we know exactly where the problem is, it will be easier to give information to people and let them know about the situation. so out of all we need a temperature sensor and also we want our CubeSat to send us data from above. this data must include maps that show the earth's temperature.

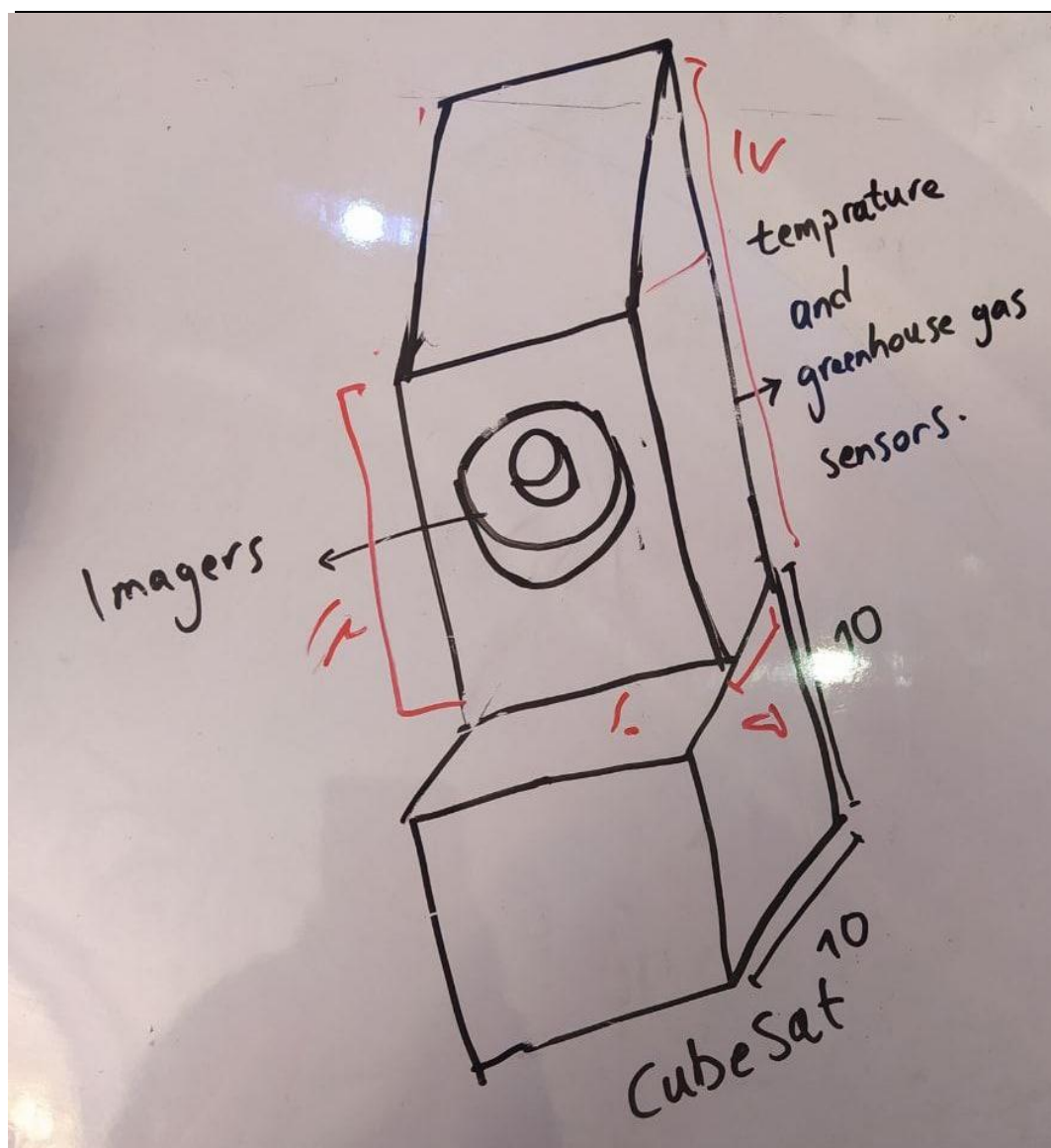
all we need:

Transponder, remote sensing (temperature sensor, greenhouse gases monitoring), data transmission system, Multi-spectral imagers, Communication system, Reconnaissance system

***The equipment above are systems that are specific to the type of CubeSat that we want to design.**

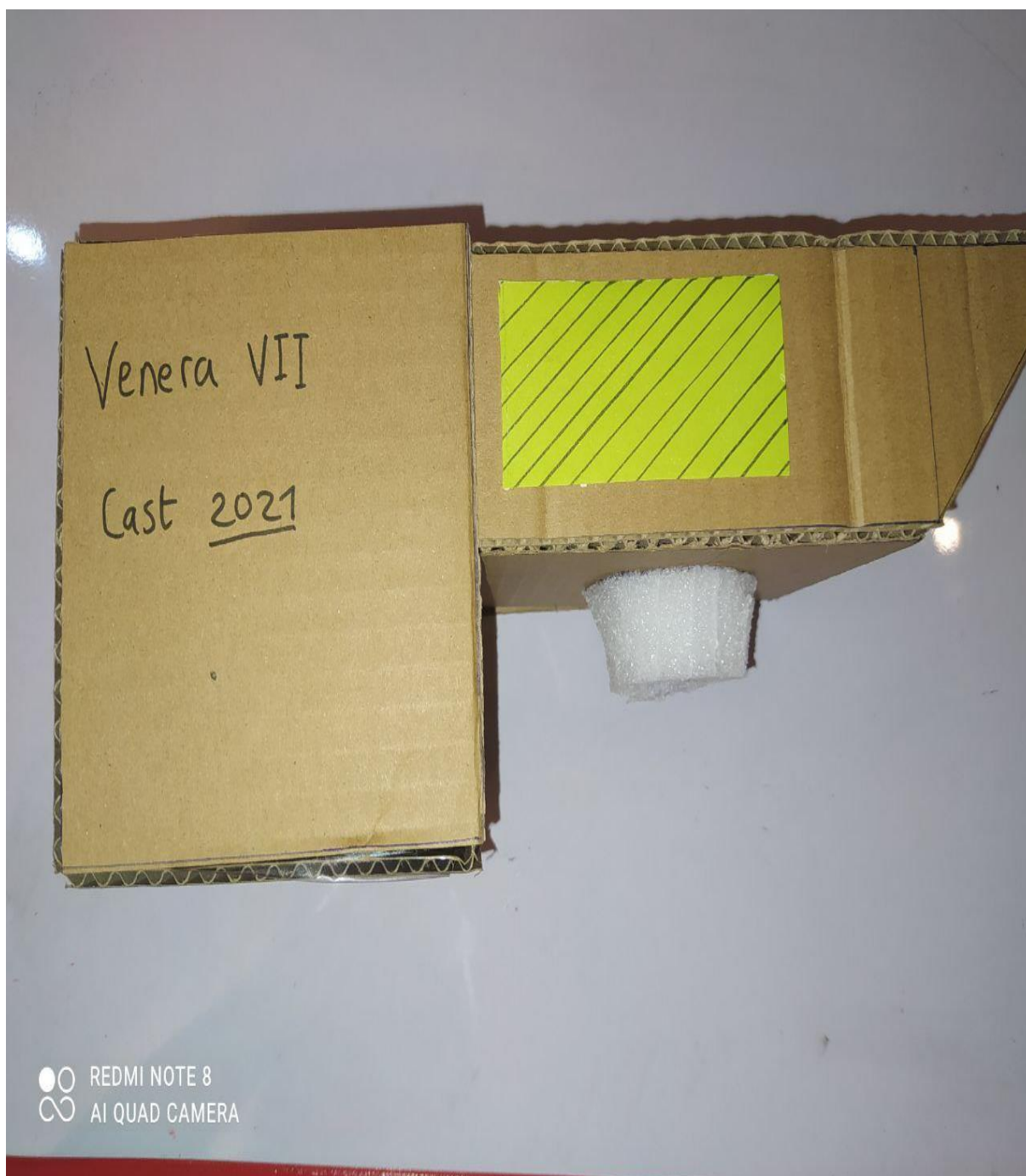


2. Design Drawing





3. Structural Design





4. Materials Used

We used paperboard to build a model for our designed CubeSat

5. Building Processes

We used pictures and our voice of our building process and added them to the video

6. Summary

As we mentioned before our idea was to help global warming by CubeSat, We suggested if we use CubeSat which contains Temperature sensors and greenhouse gas detectors, we will be able to recognize the most vulnerable places on earth against global warming and inform people.