

TECHNOLOGIES IN STEM EDUCATION

Team GRLSAT | Reformed High School of Gödöllő | Gödöllő | Hungary

CUSTOM SENSORS FOR GRLSAT

A SATELLITE LAUNCHED IN THE 2019 CANSAT COMPETITION

What is a CanSat?

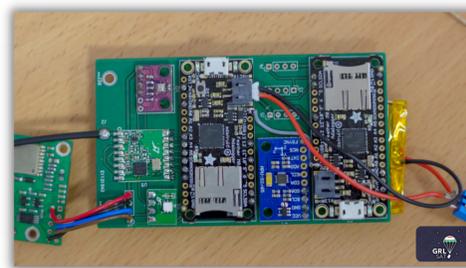
A CanSat is a simulation of a real satellite, integrated within the volume and shape of a soft drinks can. The CanSat is launched by a rocket to an altitude of 1000 meters and returns by a parachute. During the flight, it transmits all measurements to a ground station.

Sensor development

It all started with a few ideas, which we turned into plans and built a scientific instrument from scratch. Using computer aided design, 3D printing and basic programming skills, we built working prototypes in-house. Finally, we verified our hypothesis with calibration measurements.

Educational value of the CanSat project:

- learn by doing
- get acquainted with the inquiry-based methodology that is typical of real-life scientific and technical professions
- acquire and/or reinforce fundamental technology, physics, and programming curricular concepts
- understand the importance of coordination and teamwork
- enhance communication skills
- make international connections



Conclusion: Do you want to know what it is like to take part in a real space project?

Work together as a team to imagine, build and launch a CanSat!

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