CanSat Task

Team ATeam BMentors:Mentors:SankalpHarshDebdootChiranDebalMohanPrarthanaEshanYashviPradyumna

Members:Members:GirishJatinManshaSiya

Anirudh Chandrashish

Supreeth Balaji

Kinit Supreet Kaur Anubhav Aaron felix Vishwajeet Shreyas Utkarsh Farhaan

DATES:

30th April → 26th May Presentation → 27th May

Problem statement

2021 CanSat MISSION STATEMENT

Additional Guidelines:

- Refer 2021 CanSat mission guide document thoroughly for details
- Use the PDR template from CanSat website for the presentation and only complete the following subsections
 - o Sensor Subsystem Design
 - Descent Control Design
 - Mechanical Subsystem Design
 - Communication and Data Handling Subsystem Design
 - Electrical Power Subsystem Design
 - o Flight Software Design

Ground Control System Design

Note: Elec+CSE per team needs to make a github repository and share the link to the mentors on 26th May

Electrical

- Use only 1 XBee in the carrier.
- Write the Arduino program.
- Generate the gerber files for the PCB
- Add the arduino program and PCB related files in the repository.

CSE

- No need to implement MQTT
- Add the GUI and website files in the repository
- Website guidelines
 - Develop a website to showcase your team's CanSat.
 - The website shall display an overview of the whole Cansat, the CONOPS and major features of your Cansat, like the design of the container and payloads, and a brief and relevant description.
 - Demonstrate various subsystems in the CanSat with images (Ex: The PCB design, the container and payload sub-structures)
 - The UI has to be built using React, and is expected to be as clean and crisp as possible.
 - The website shall contain animations/graphics, to make the UI look better. The
 visuals to be included and their placement are left open for the team's
 imagination. You can use **Three.js** library for implementing the same.
 - Optionally, you can also add a 3D model of your Cansat, and any other Cansat related components.
 - Include information about your team, the work division, and the team's contact info
 - Deploy your website using Github Pages