

Suggested BalloonSat Requirements

In order to increase student success and reduce launch delays, the following list of BalloonSat requirements was created. Feel free to adapt them, as there are always situations outside of the norm and some requirements may not be appropriate or possible with a particular design or mission of BalloonSat.

Strong Requirements

- BalloonSat tested to verify that it works as designed
- Flight computer securely mounted inside of the airframe
- Commit Pin easily connected to flight computer (verifiable connection)
- Fast and easy to connect BalloonSat to the tethers (usually four tethers)
- BalloonSat hatch is easily opened and closed and is securely sealed to airframe
- Batteries quick and easy to load into the airframe
- Batteries immobilized and unable to bounce around inside the airframe
- Battery is quickly and easily connected to the flight computer (verifiable connection)
- Commit Pin can be removed quickly from the closed airframe

Requirements

- BalloonSat accompanied with a clearly-written and tested checklist
- Easy to connect a PC to the flight computer without tearing open the airframe
- Camera openings in airframe are not covered with windows (glass or plastic)

Suggestions

- BalloonSats must meet weight limits
- BalloonSats must meet size/volume limits
- BalloonSats must meet function requirements