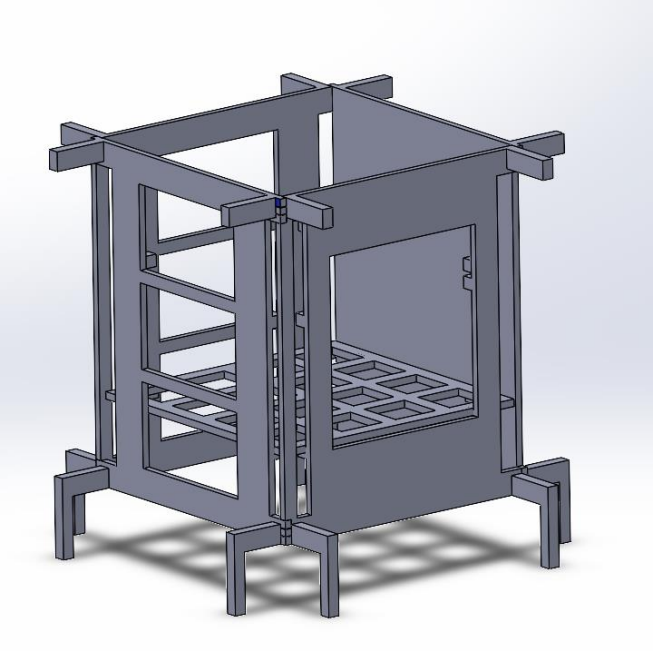
Abstract

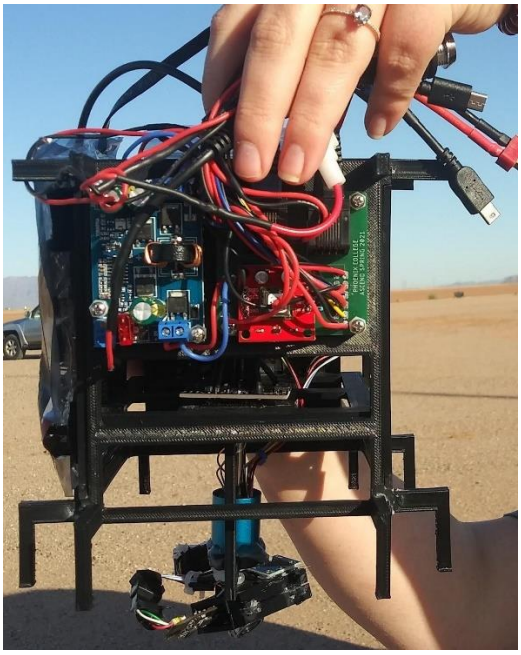
The mechanical team aims not only to house and hold all internal components but also to protect them from the cold atmosphere and the fall back to the ground. A space blanket covered by a layer of wax paper is used to insulate the payload and prevent any potential unwanted conductance between components. An interior structure in the shape of a cube holds the components on the outside, and within the cube holds the battery along with the camera. A 6-inch dome sits at the bottom of the payload and acts as the lid and allows for a wide view for the camera. The exterior and interior are vital to keeping the components safe and secure. The mechanical team aims not only to house and hold all internal components but also to protect them from the cold atmosphere and the fall back to the ground. A space blanket covered by a layer of wax paper is used to insulate the payload and prevent any potential unwanted conductance between components. An interior structure in the shape of a cube holds the components on the outside, and within the cube holds the battery along with the camera. A 6-inch dome sits at the bottom of the payload acts as the lid and allows for a wide view for the camera. The exterior and interior are vital to keeping the components safe and secure.

Mechanical Team:

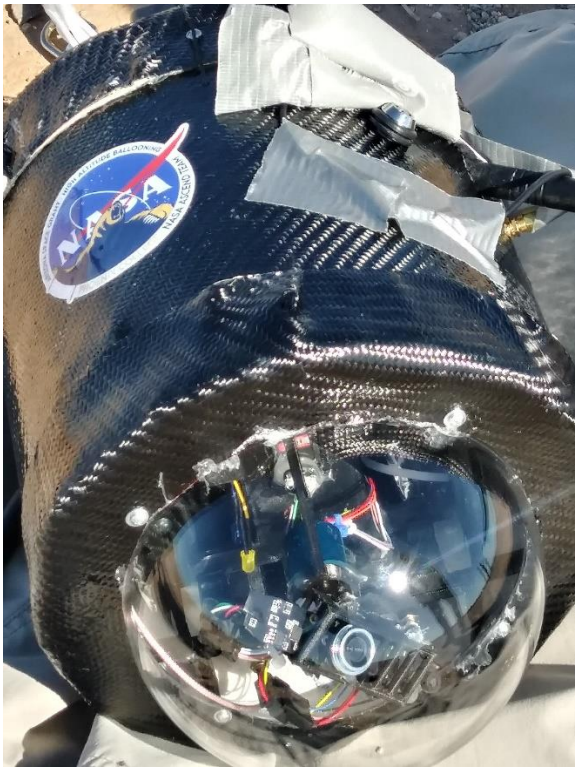
Interior designed in SolidWorks



Interior assembly with electrical components.



Final assembly.



Final Payload before launch.