

## Appendix (Sketch Up Files): Payload Adapter Specification (Payload Adapter information is provided for reference only).

The payload adapter allows for the different weight payloads to be interchangeable for test flights. The payload adapter will include a 10 inch x 10 inch plate with 8020 aluminum extrusion rails attached to two opposite sides of the plate to attach the payload. The payload will extend up to 8 inches from the base plate. The design must include at least four points of connection to the 8020 rails to ensure the payload is safely secured. A detailed technical specification for the payload adapter will be provided to invited Contestants in the Prototyping, Hardware Build and Video Test & Evaluation Contest.

- T-Slotted Aluminum Extrusions 10 inch long, with a 1 inch x 1 inch cross-section similar to this:  
<https://8020.net/shop/1010-s.html>
- The aluminum extrusion rails must be secured to the UAV using a minimum of four (4) 1/4"-20 steel bolts (similar to <https://8020.net/shop/3066.html>) of appropriate lengths and four (4) corresponding 1/4"-20 T-Nuts (similar to <https://8020.net/shop/3286.html>).
- The payload volume will be approximately 8 x 8 x 6 inches.

### Payload Adapter Views

