## Blade Guard Design Notes:

The blade guards plates shown here as Solidworks parts using carbon plates are not the best design! They were designed to use carbon plates which would screw on as a replacement of the plates holding the motors to the arms on the X8 drone. These plates would be separated by plastic standoffs at the outer part. These blade guards were never made or used. Instead, blade guards were made using carbon rods. The reasons for not making these blade guards are:

* Still too heavy (>120 g). (maybe using a thinner carbon plate would be OK but I have not done any analysis to determine what thickness of plate is required.
* Too much money
  + $150 to make one set at Colorado Water Jet. (or 3-4 days of my time to manufacture myself at the aero machine shop plus $40 to buy my own tool to use for machining)
  + ~$250 to buy materials
  + Total cost >$400 and lots of work!!
* The carbon rod design is very cheap and much faster/easier to make. These blade guards were actually implemented.

### Summary:

Do not make the carbon plate style blade guards unless they are analyzed and shown to work! Use carbon rods to make blade guards like the ones currently used.