

RC Seagull by Fidget

Build Guide

Parts

1806, A Pack motor, or equivalent. I used one from HobbyKing for which I could find a folding prop.

12A ESC

5g servos x4. I set it up on a 6 channel receiver with dual aileron channels, and the two central elevators in a V-tail configuration so that they might be used to add some rudder control.

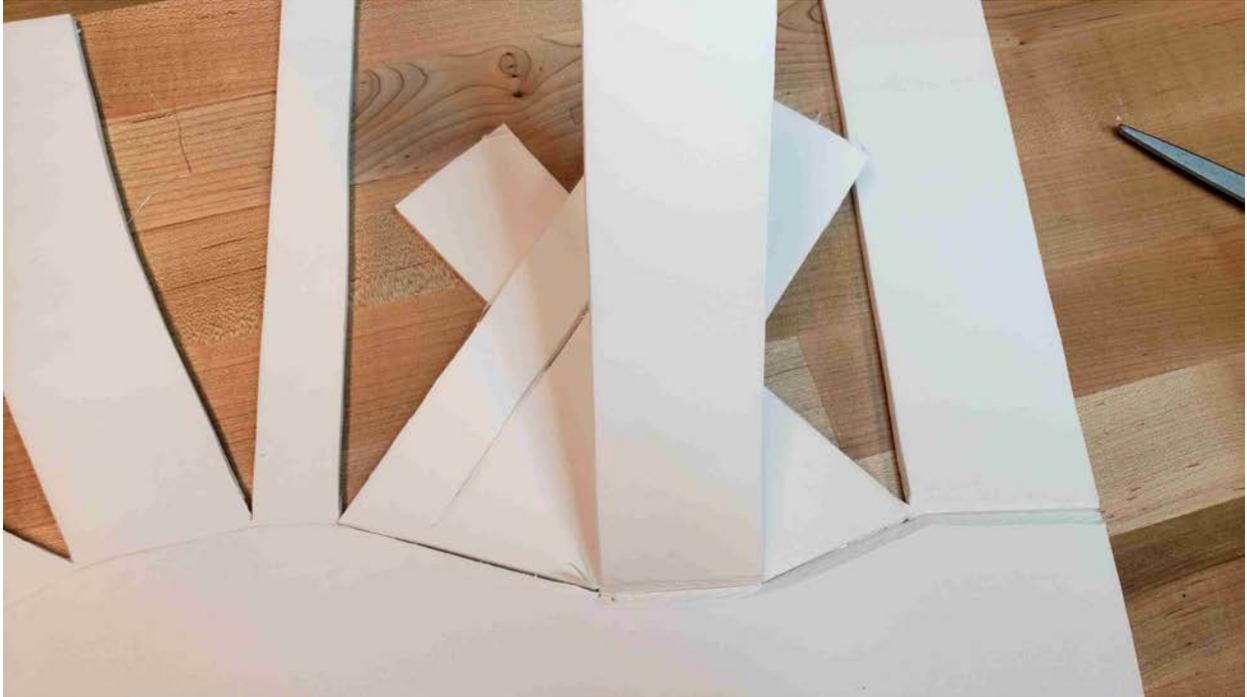
Wing

Cut out all parts. Remove paper from the top (inner) side of all of the wing sections.

Tape the “left wing1” and “left wing 2” sections onto the main left wing section. The dotted line is the edge that should be taped on.

The right wing is the mirror of the left.

The leading edge of each wing can be cut with dual 45 degree bevels. Or, as I prefer, smashed with the end of a Sharpie.

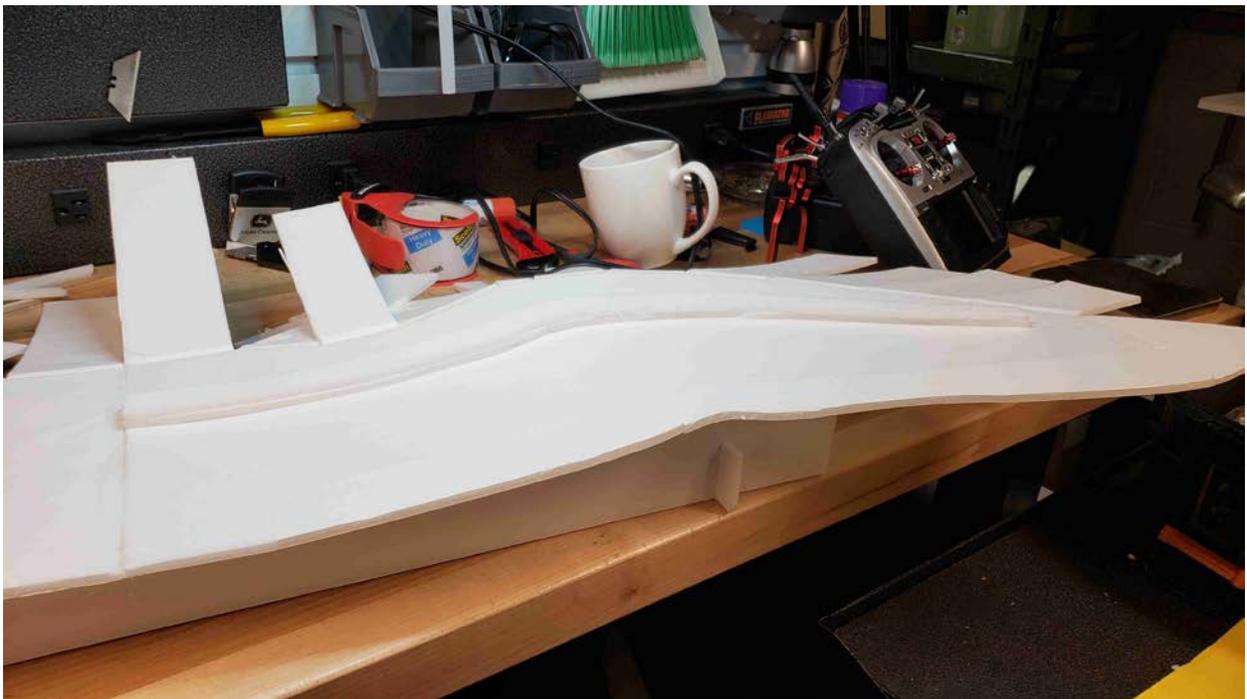


Tape and glue the two wing sections together.

Remove the paper from both sides of the spars.

Assemble the wing guide.

Push the bottom of the wing onto the wing guide, helping form the upward and then downward angle of the wing, forming the gull effect. While holding it down, glue the spars on.



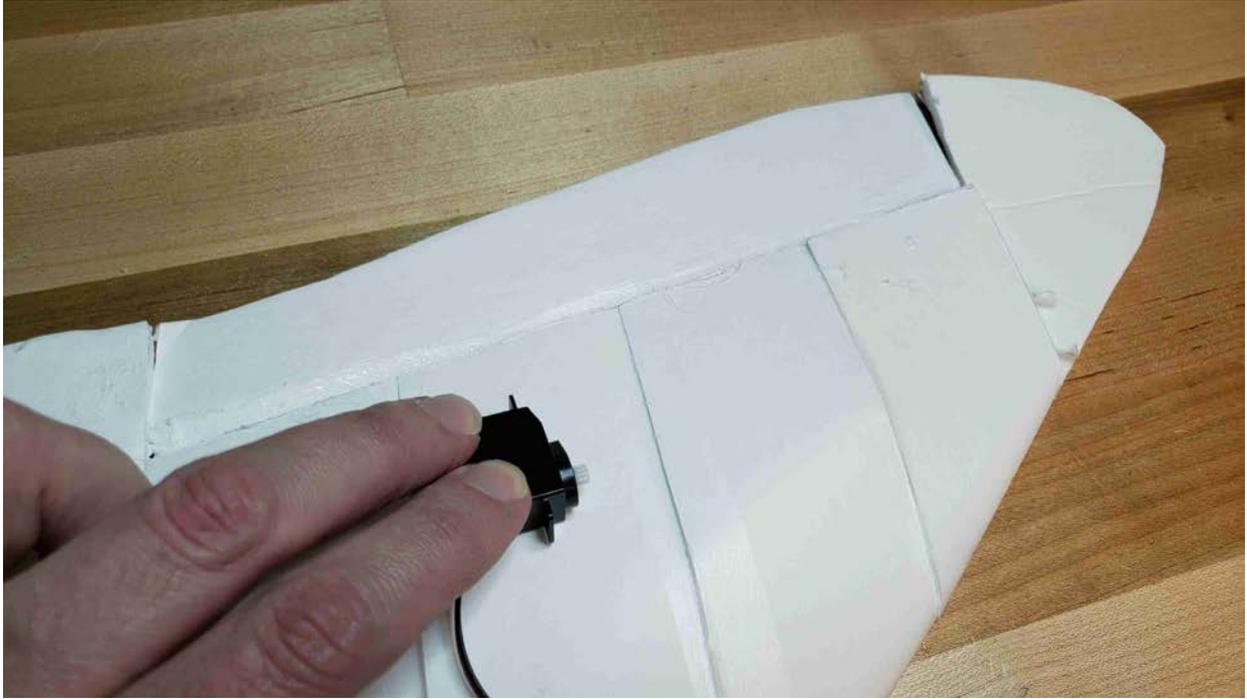
Starting at the middle, fold each section over. Once it is dry fit, glue it at the leading edge, spar, and trailing edge. As you do it, keep pushing the wing down onto the guide. The width of the top sections should help it hold the fold.

Once you've done both wings, it's time to glue and tape the individual top sections together. In the flight video, you'll see where one breaks apart where it wasn't taped. You'll need to tape each joint, ideally with a narrow strip of packing tape (although I'm not sure where to find that yet).

Reinforce the leading and trailing edges of the middle with BBQ skewers or wood dowels.



Lay the servos on the upper wing panels, behind the spars, perpendicular to the joints.



Cut appropriately sized holes in the top sections, and corresponding slots for the control horns. Pass the wires through the wing.

Fuselage

Drag a BBQ skewer through the fold lines between the fuselage sides.

Cut roughly 45 degree bevels into the sections of the nose.

Then dry fit the fuselage around Formers A & B (they're identical).

Then run beads of glue down the folds, and glue the formers in place.

Then gradually fold the nose pieces in and glue and/or tape them together also.



It looks hairy because I tried to use electrical tape to hold it together like John Overstreet uses blue painters tape. It only sort of worked.

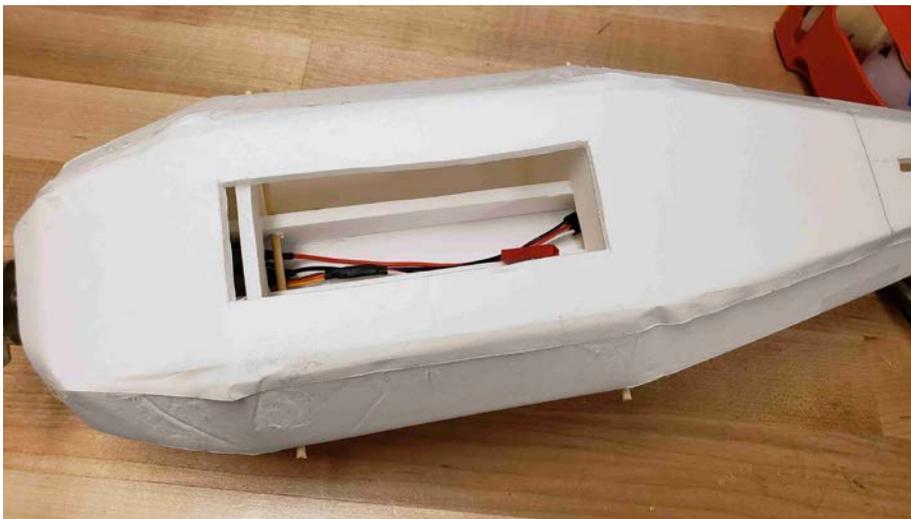
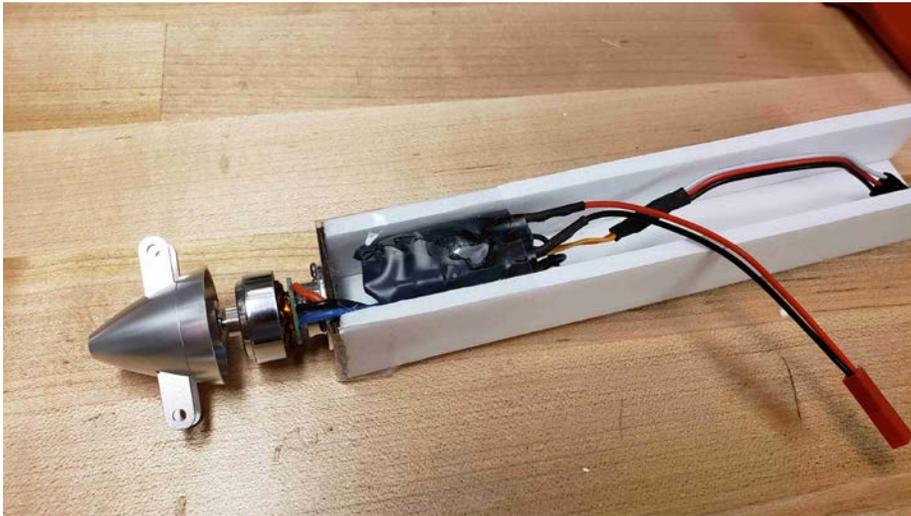


Do the same for the tail.

Glue the top plate and vertical stabilizer on.

You could potentially leave the horizontal stabilizer unglued and use it to trim the pitch.

The power pod is just an elongated version of the Mighty Mini power pod.



I wrapped rubber bands around the front and back of the fuselage to hold the wing on.



The CG is under the spar.