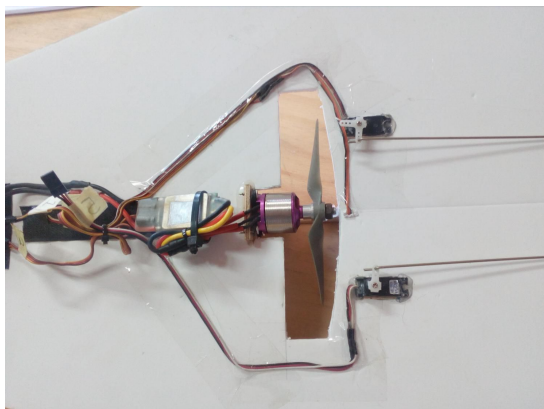
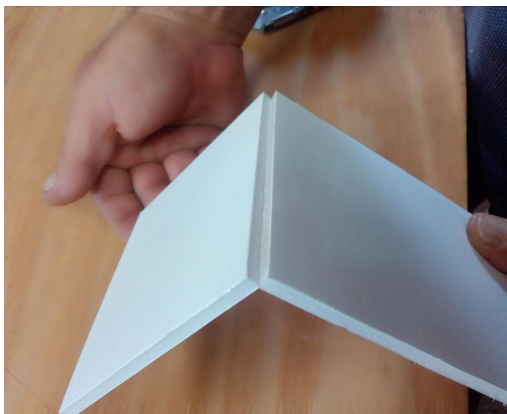


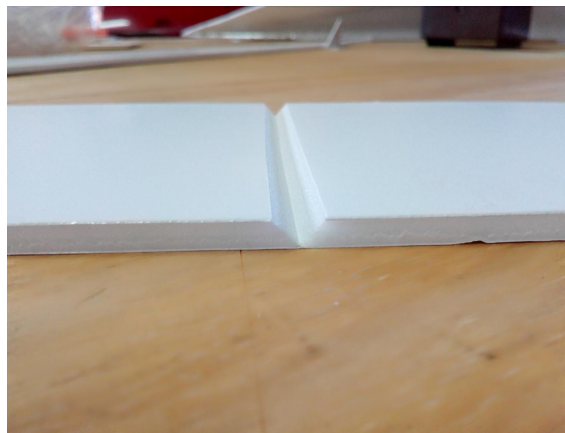
1 Left:
Cut out the wing and rudder/rib as per plan.



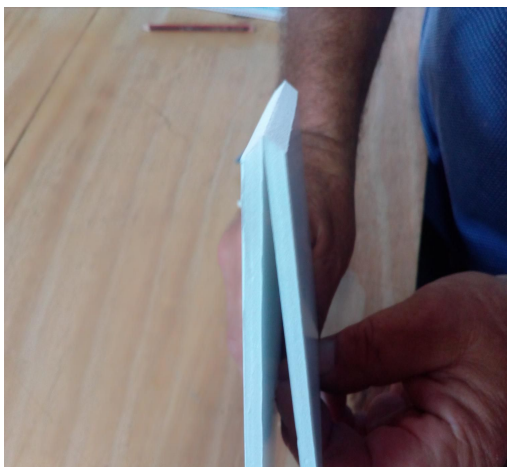
2 Above:
Cut out the motor and prop hole as per plan.



3 Left:
With the wing, top down, gently cut through the top layer of the aileron hinge line. Be careful not to cut all the way through the board. (picture shows a sample board for clarity)



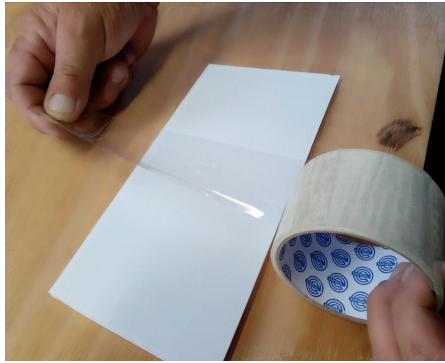
4 Below:
With the board folded, cut to a bevelled edge allowing the aileron to travel up and down.



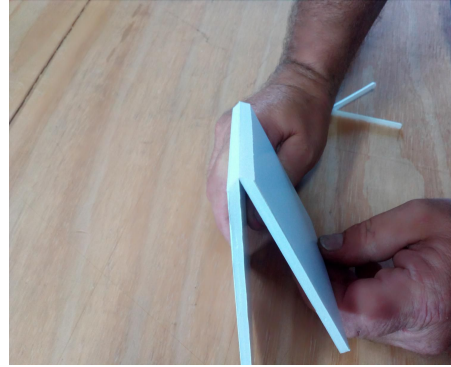
5 Above:
Aileron hinge completed cut.

Notes :
Built from 5mm foam board
2215/20 +- 1500kv motor
20 - 30A ESC
6 x 4 prop
11.1V lipo 2200mAh at 30C
3 x 3kg servos

Use foam safe epoxy glue. Heat gun glue tends to soften in sunlight.
Do not use cyano as it melts the foam.



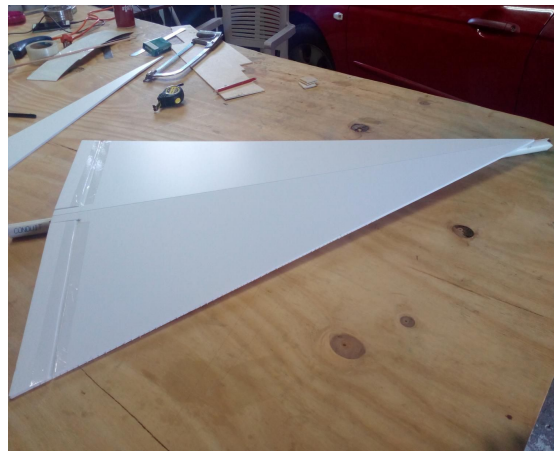
6 Above:
Wing top up. Stick tape across with hinge line along the centre..



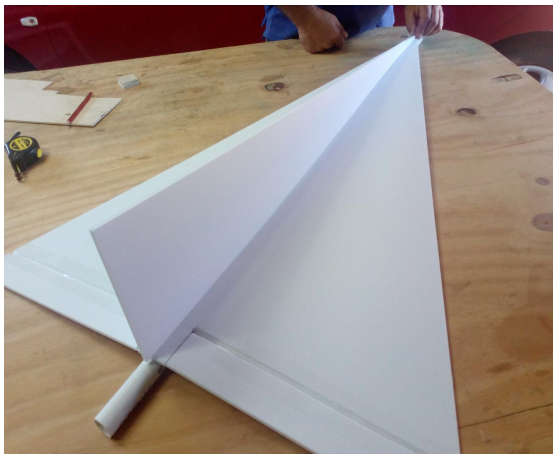
7 Above:
Fold aileron double and stick tape centered along ridge.



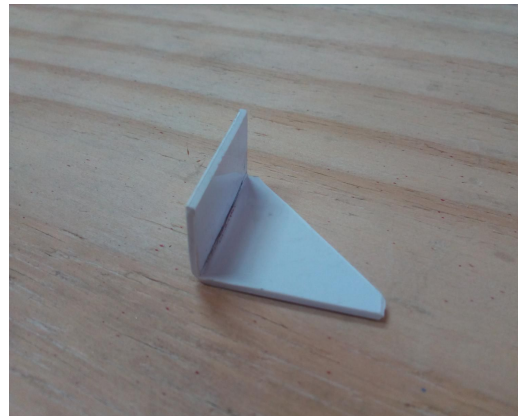
8 Above:
With wing bottom up, cut along the centre line but not right through.



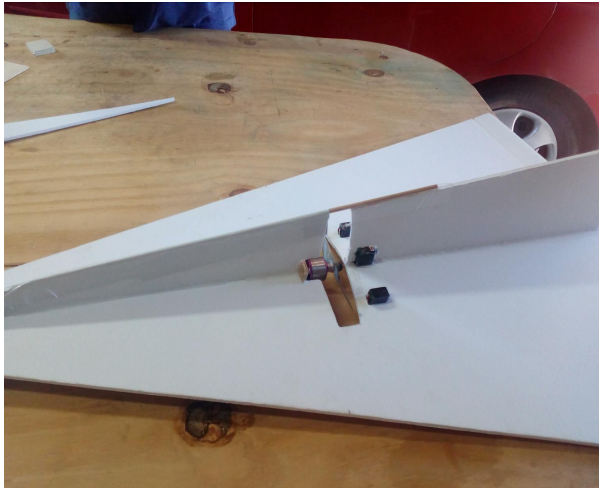
9 Above:
With wing bottom up, place on a electrical pipe, broom handle or any other round pipe with approx. 25mm diameter. This sets the dihedral. Secure to work surface with a bit of tape. Run epoxy down the groove and leave to set.



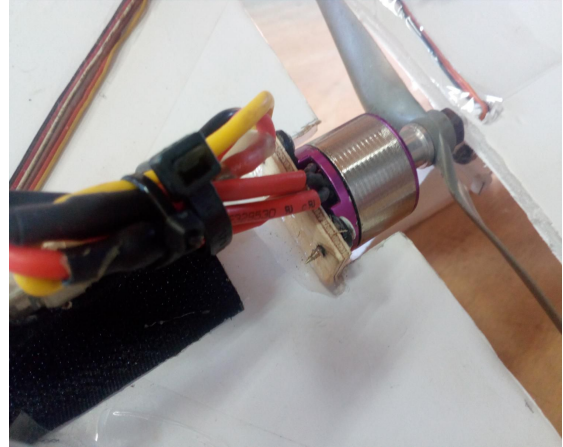
10 Above:
Prepare the rudder/rib by cutting the rudder hinge as per ailerons. Cut out the motor and prop clearance holes. Finally, epoxy to wing ensuring it is perfectly vertical. (Cutouts and rudder not shown)



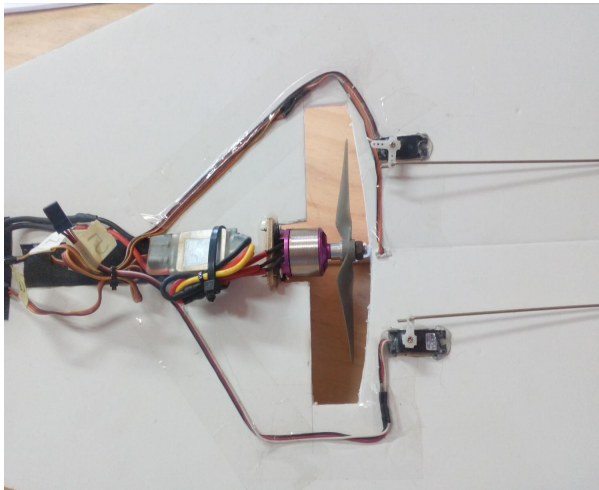
11 Above:
Make 3 control horns as per plan out of plastic (old credit cards). Warm the bend area before bending to prevent cracking.



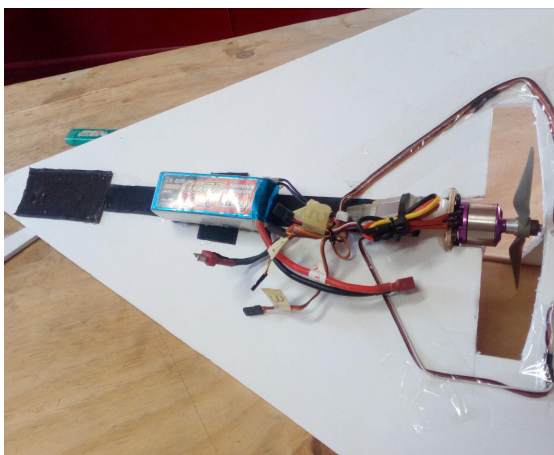
12 Left and below:
 Glue the motor mount (40mm x 40mm x 3mm ply).
 Cutout and mount servos. Note the dowel or
 carbon rod for added strength.



13 Bottom :
 Servos and motor mounting.



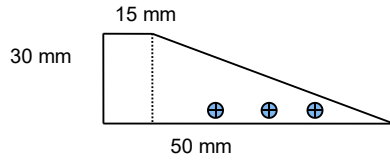
14 Right:
 Glue control horns through a slot in place. Connect
 to servos using steel rod through a tube as shown.



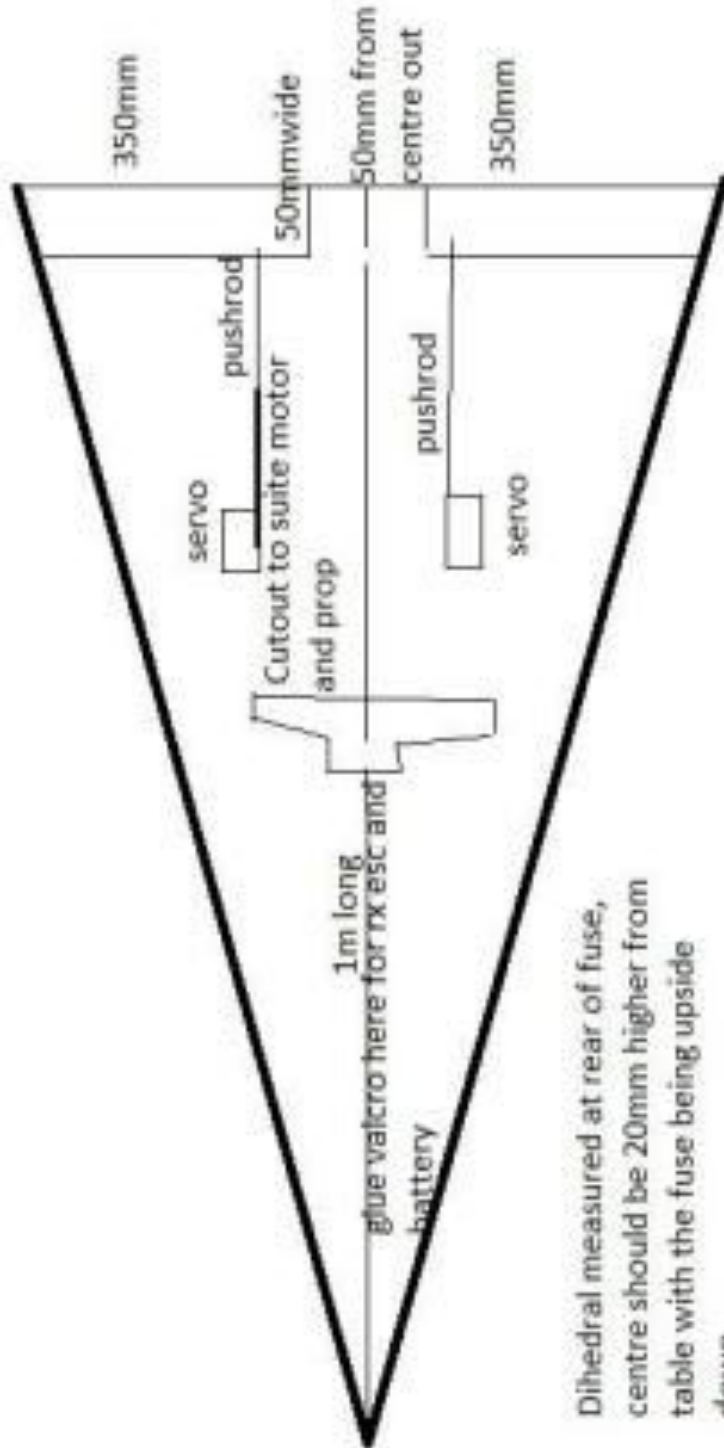
15 Left :
 Top of wing. Glue velcro from the motor to the
 nose. The receiver and battery are velcroed in
 place. Use the position of the battery to achieve
 the COG as per plan. Mark the battery position
 clearly to ensure the same COG at every battery
 fitting.

Notes :
 Rudder throw should be about 50%.
 All up weight is approx 650gm

Design: Charles Stevens
 Document: Dave Terblanche



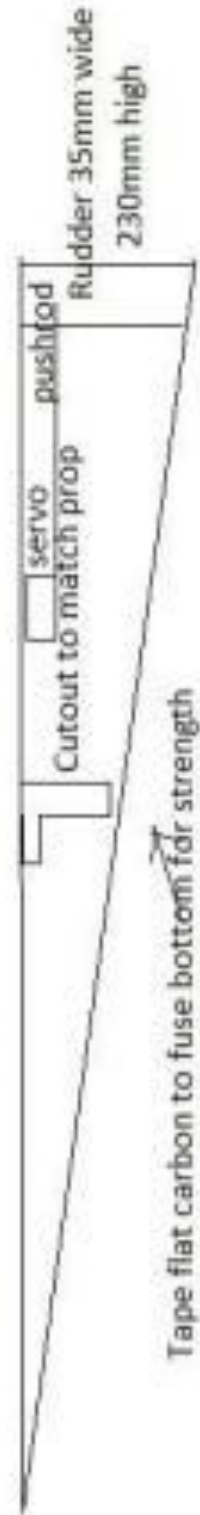
Control horn made from thin plastic e.g credit card



Dihedral measured at rear of fuse, centre should be 20mm higher from table with the fuse being upside down

CG @ 50% of fuse length

Motor mounted on cg and prop slot cut into the wings and into the bottom fuse



Tape flat carbon to fuse bottom for strength