

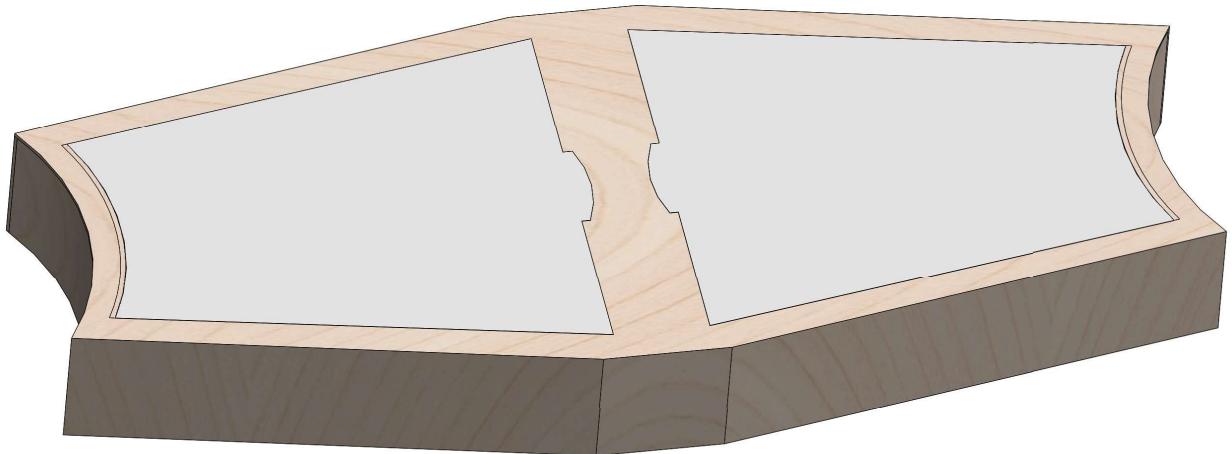
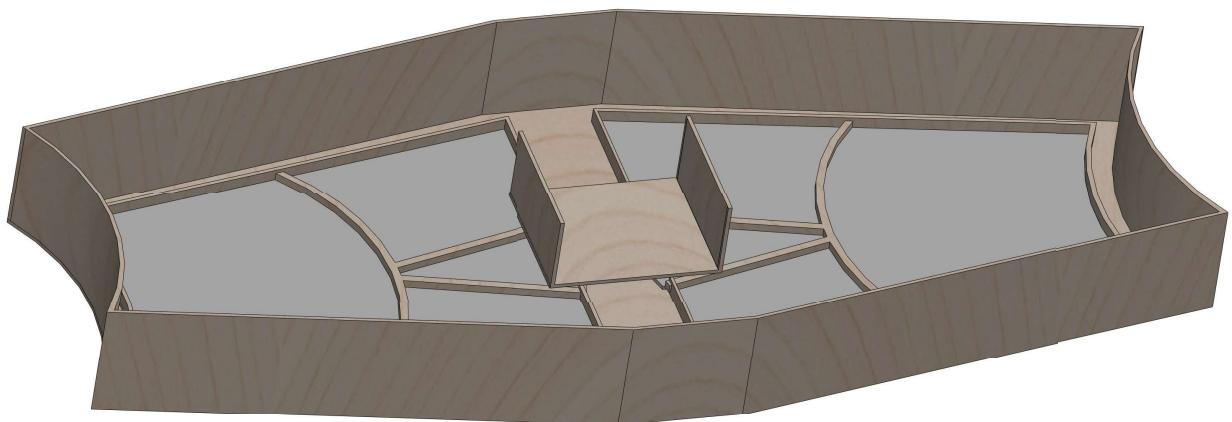
The C.L.C. Luminary

Fabrication Document

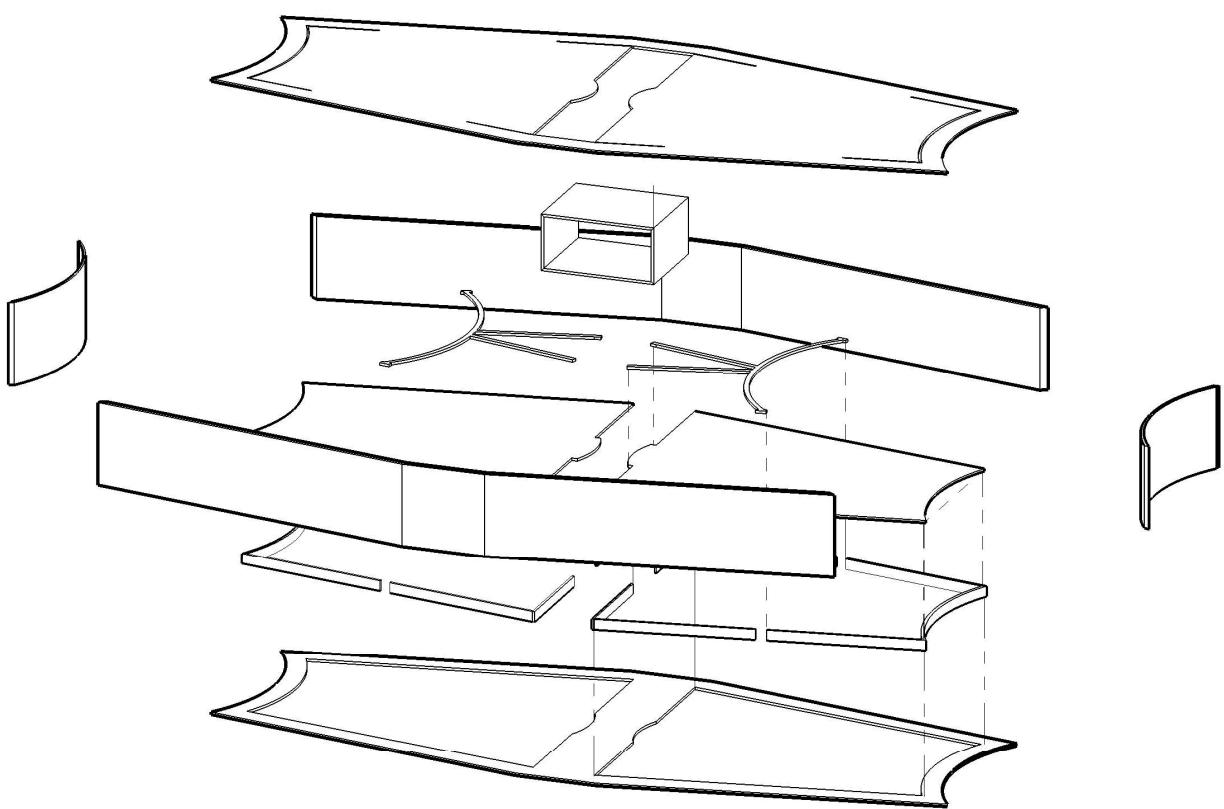
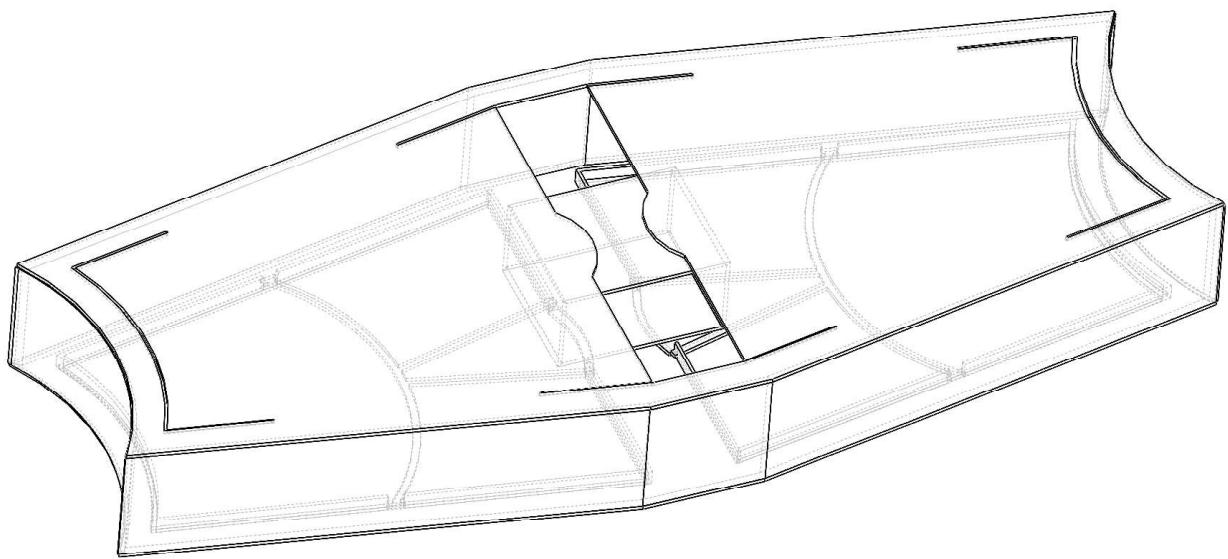


Gabriela Colon-Melendez

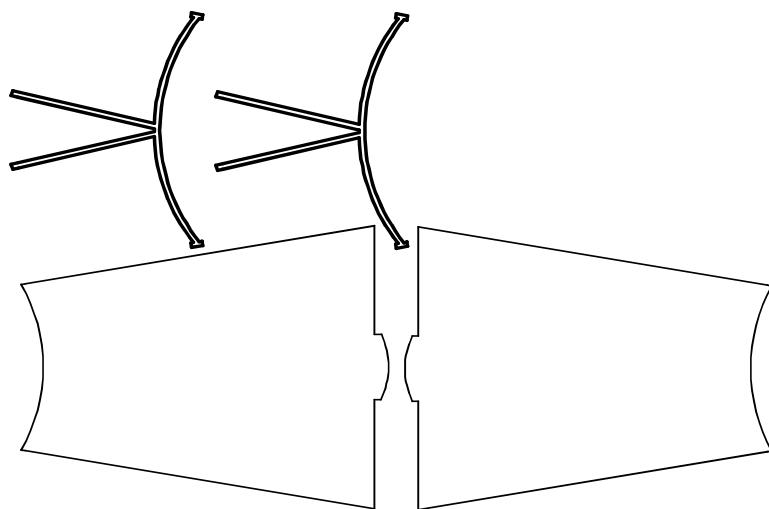
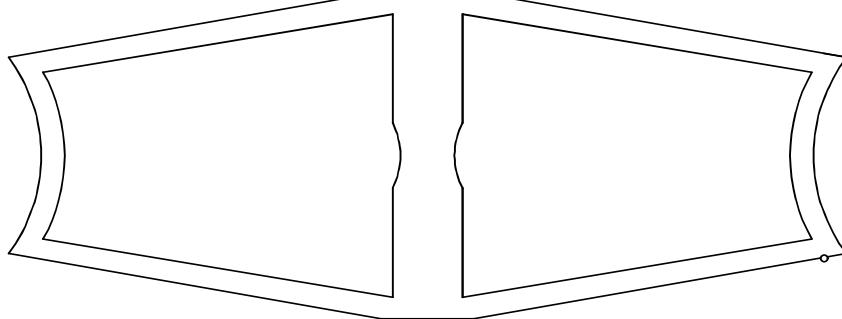
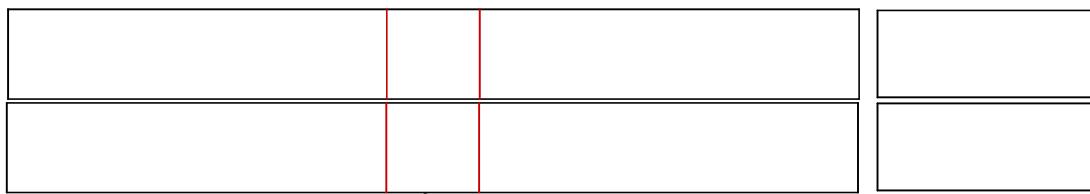
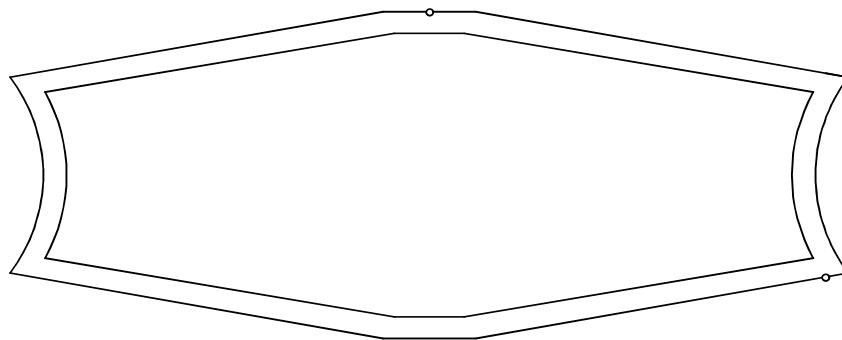
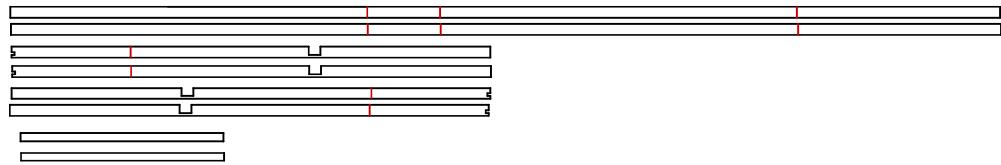
Shaded Final Design



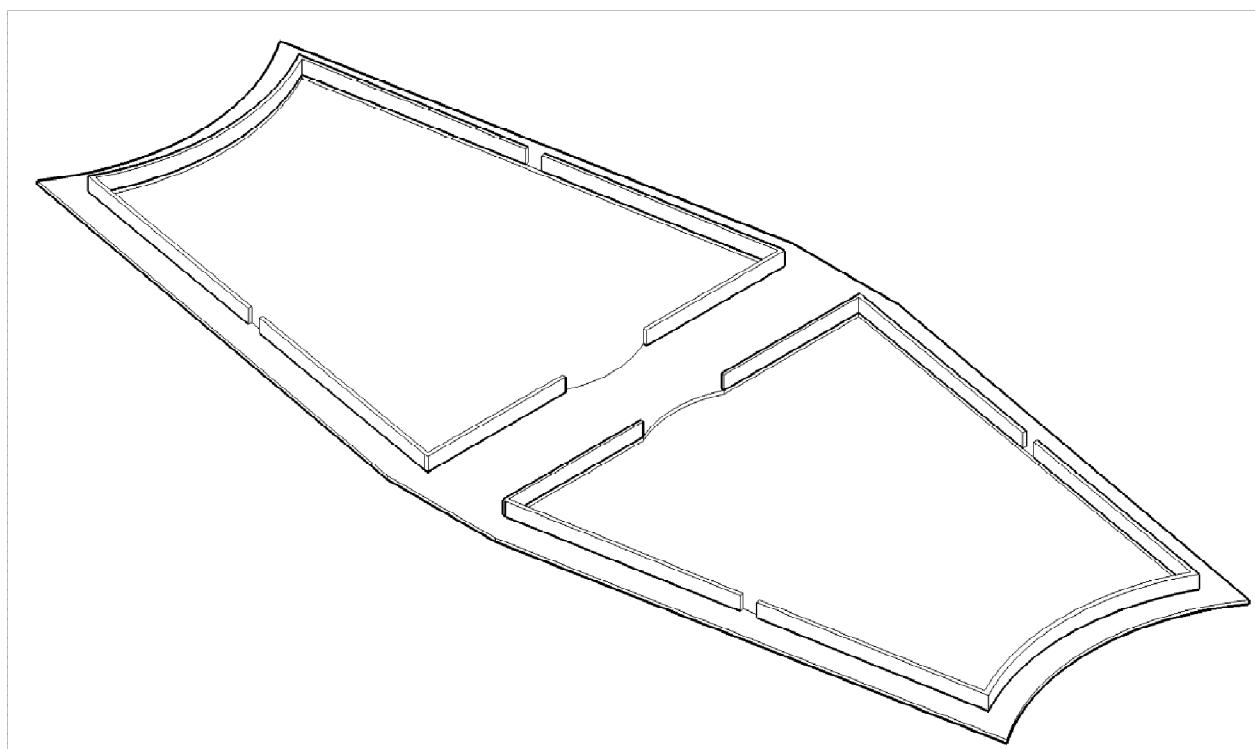
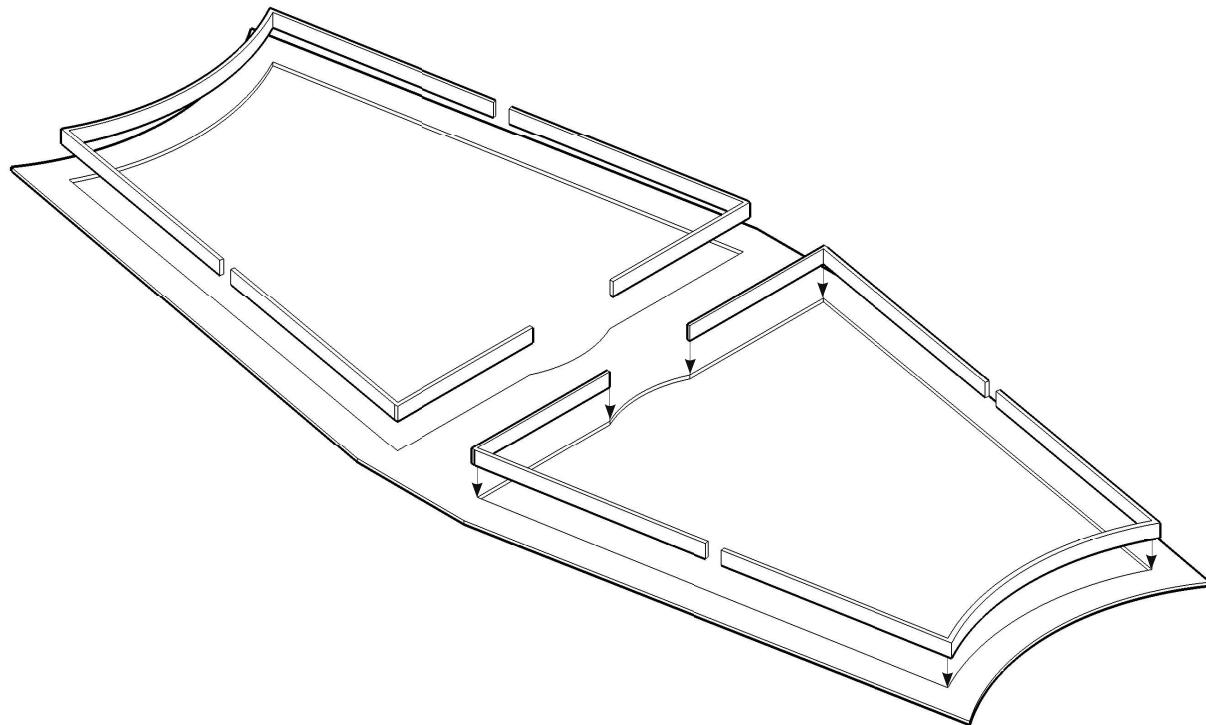
Technical/Exploded View



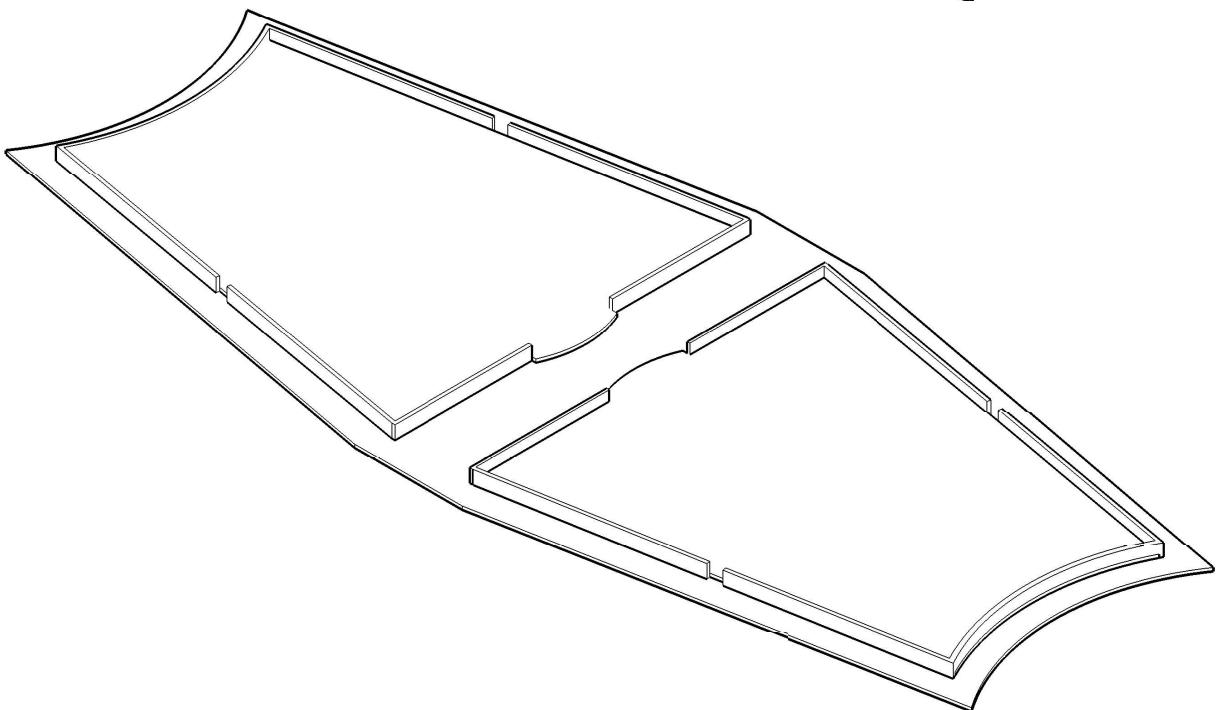
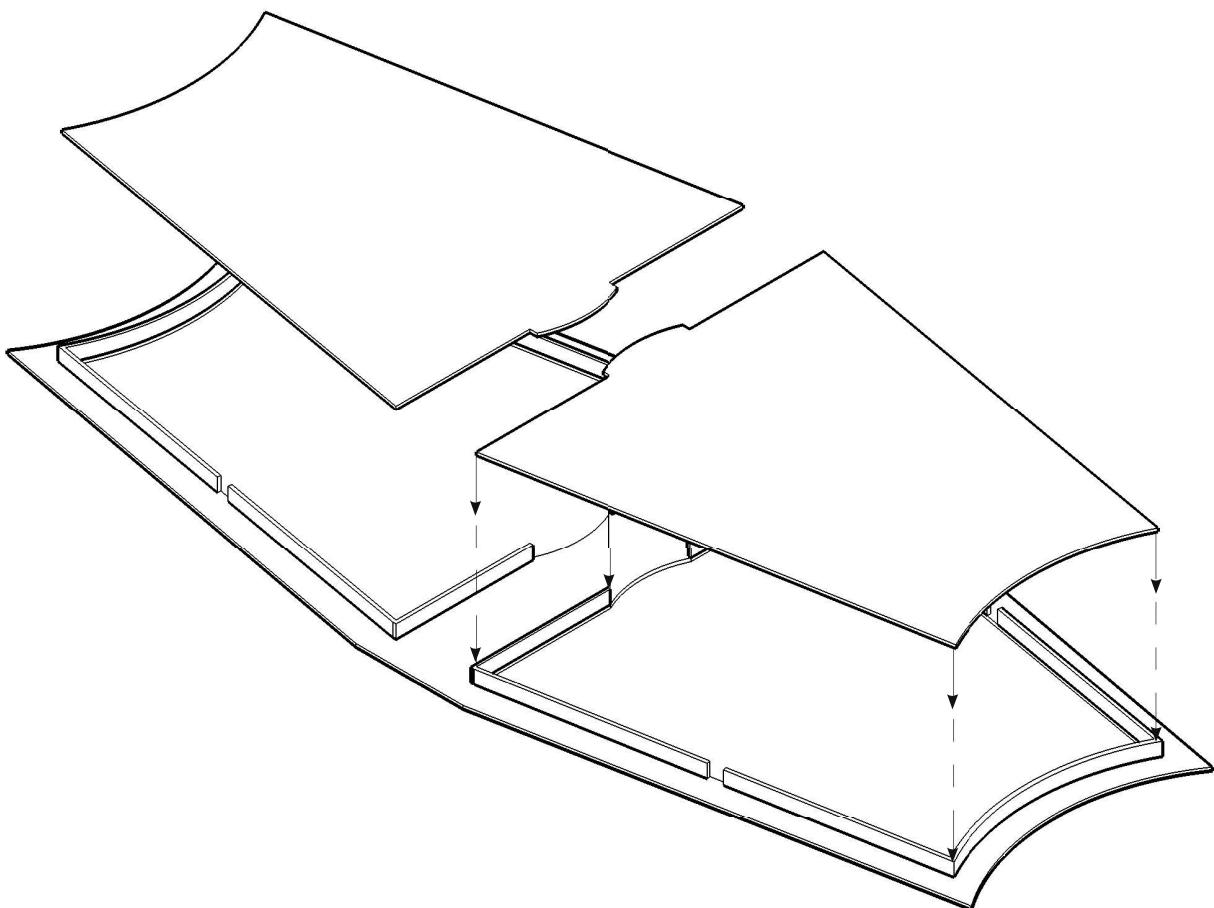
CNC/Laser Files



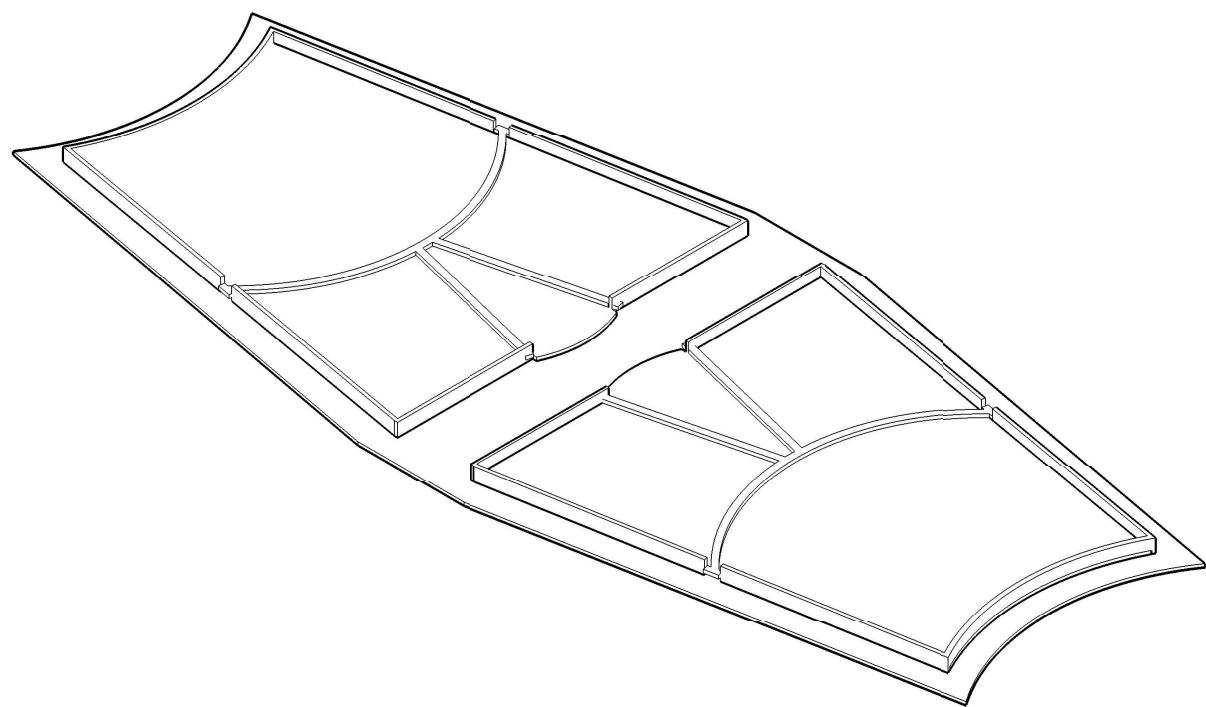
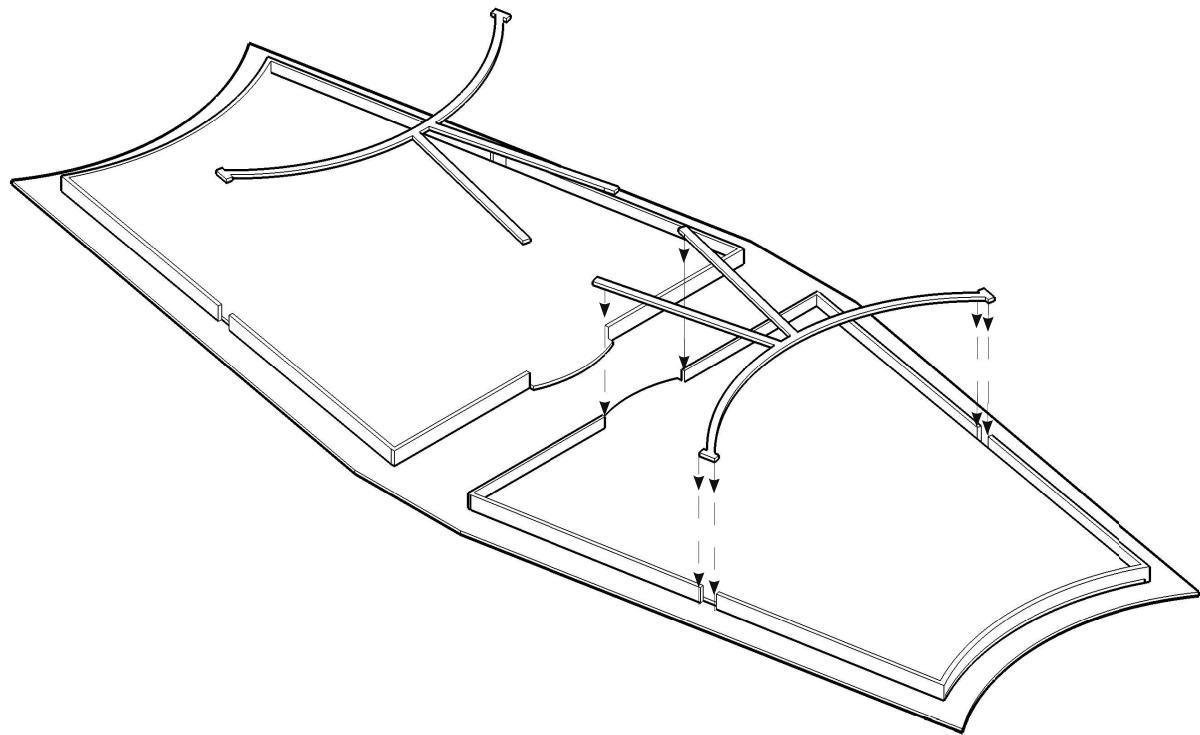
Step 1- With wood glue, assemble thin wooden frame to the bottom frame.



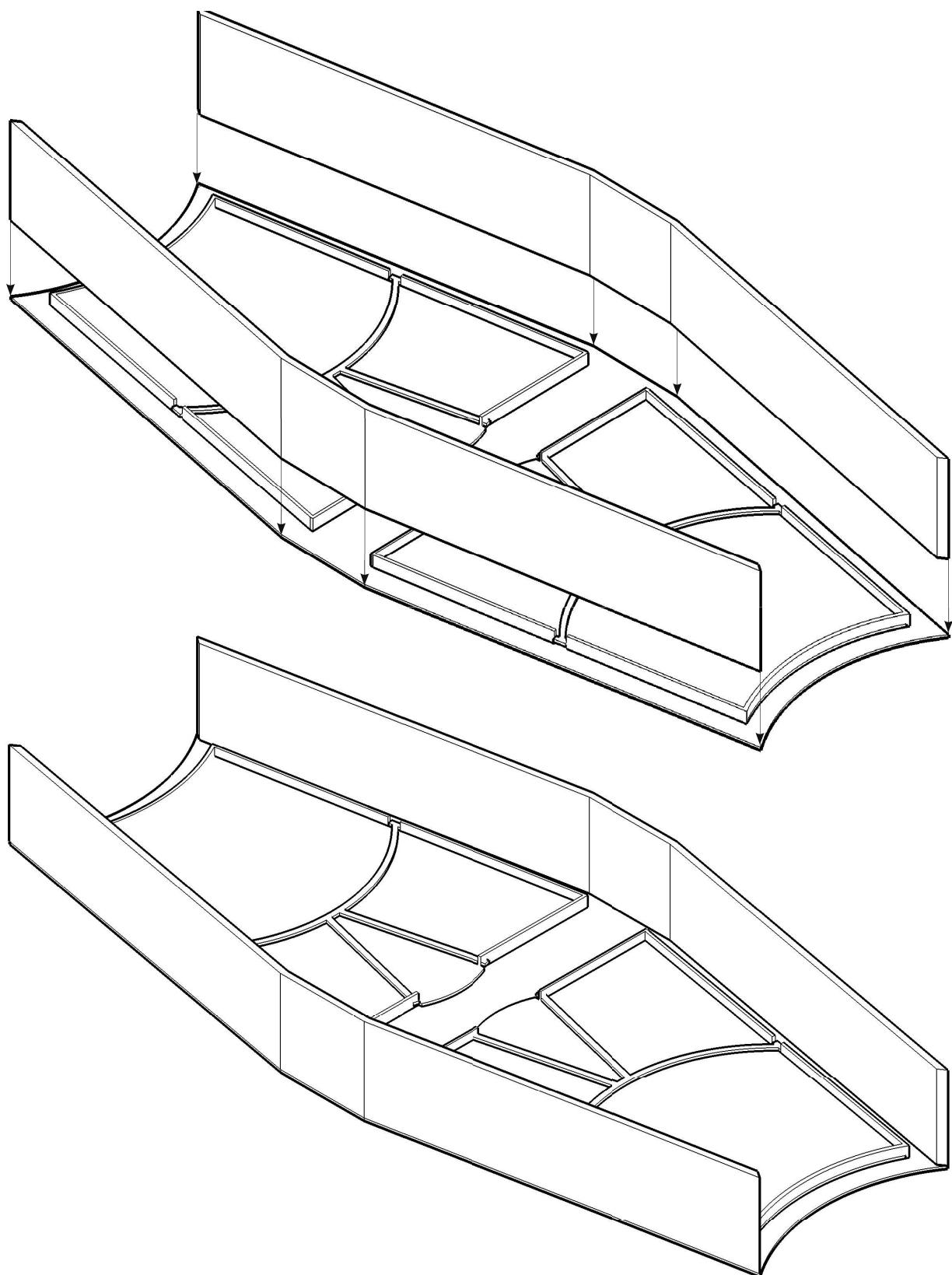
Step 2: Using E6000, insert and glue the acrylic panels into the thin frame and onto the bottom frame.



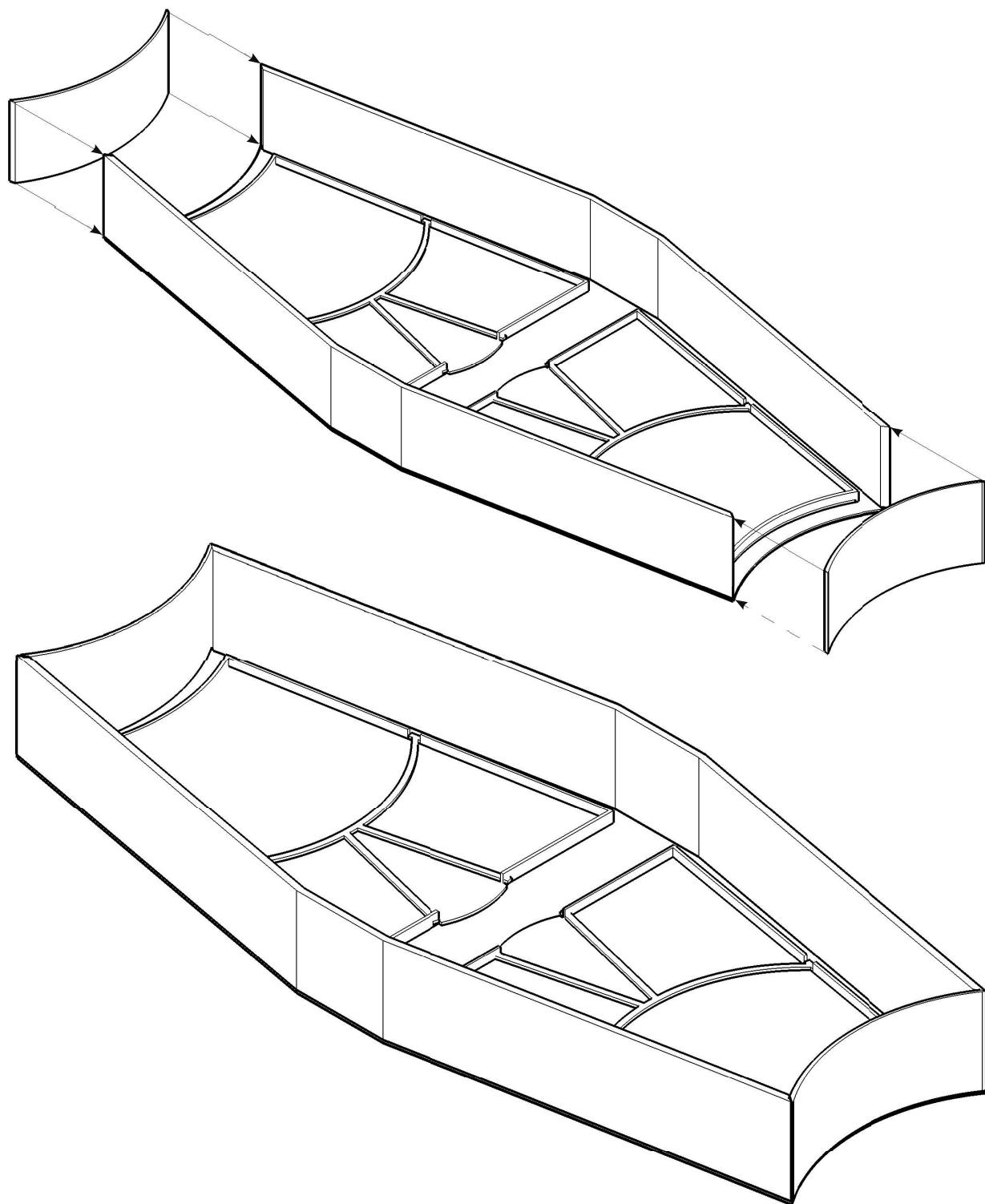
Step 3: Insert the thin acrylic detail into the slots shown and glue down acrylics pieces with E6000.



Step 4: Assemble the longer wooden panels onto the bottom frame and glue using wood glue.

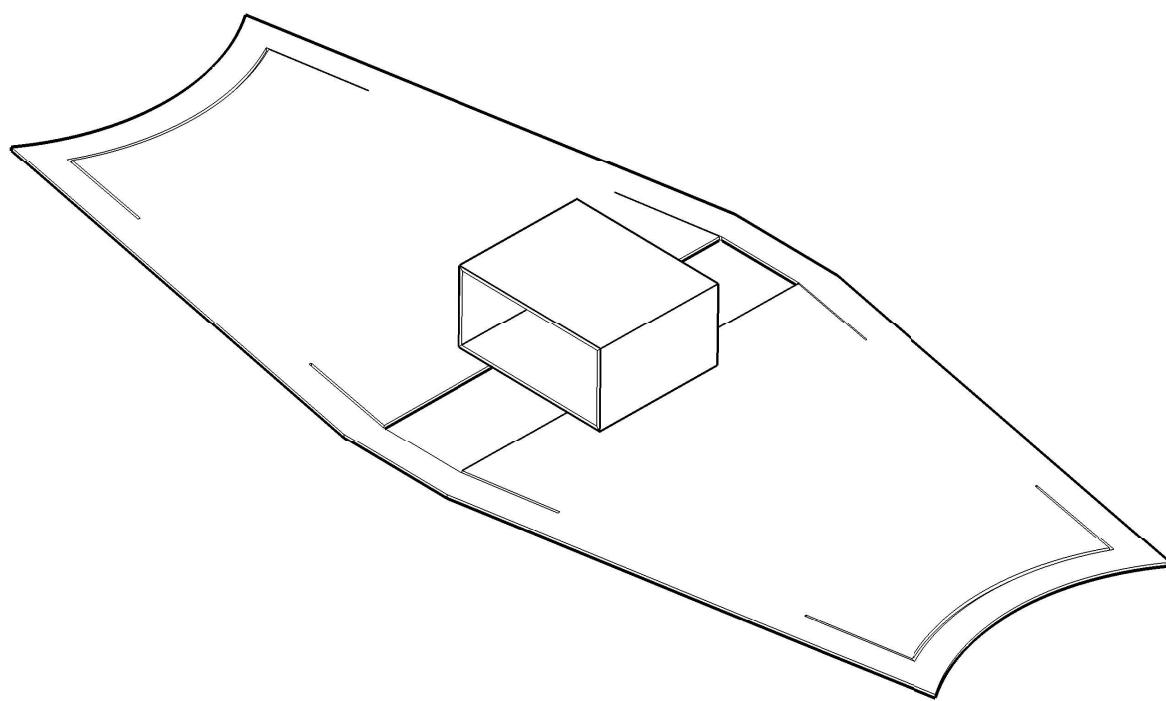
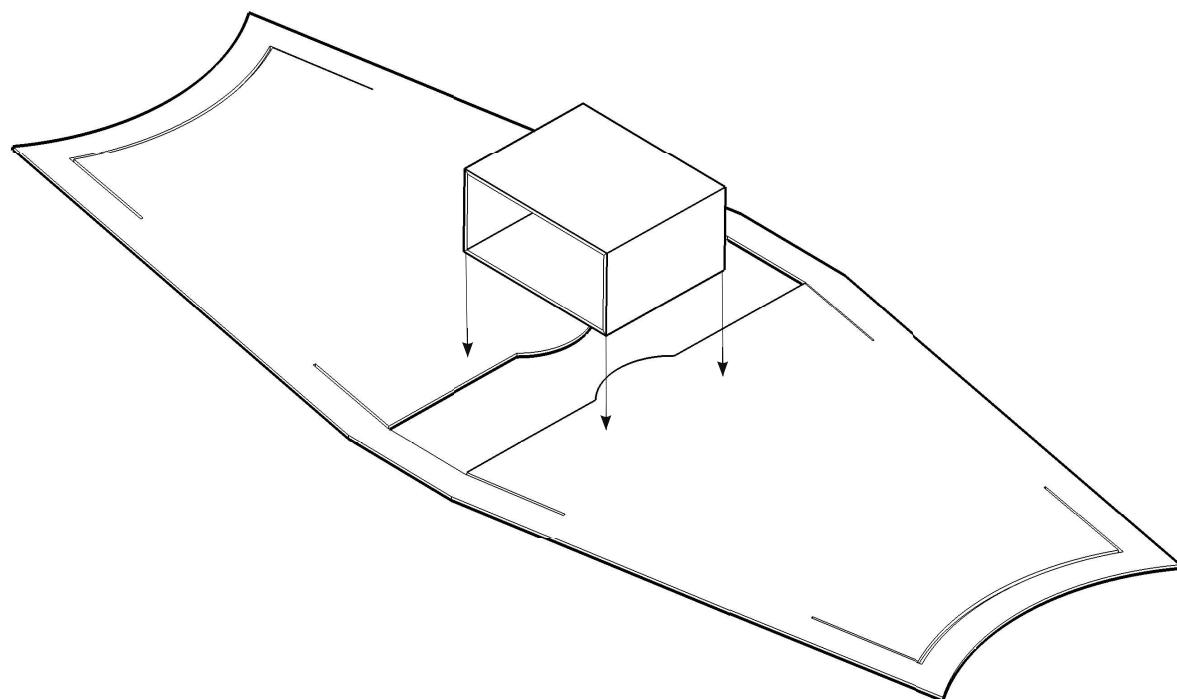


Step 5: Assemble the shorter wooden panels onto the bottom frame and connect to the side panels using wood glue as well.



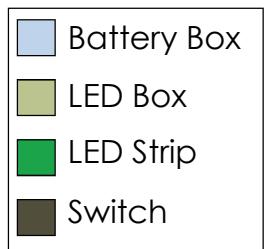
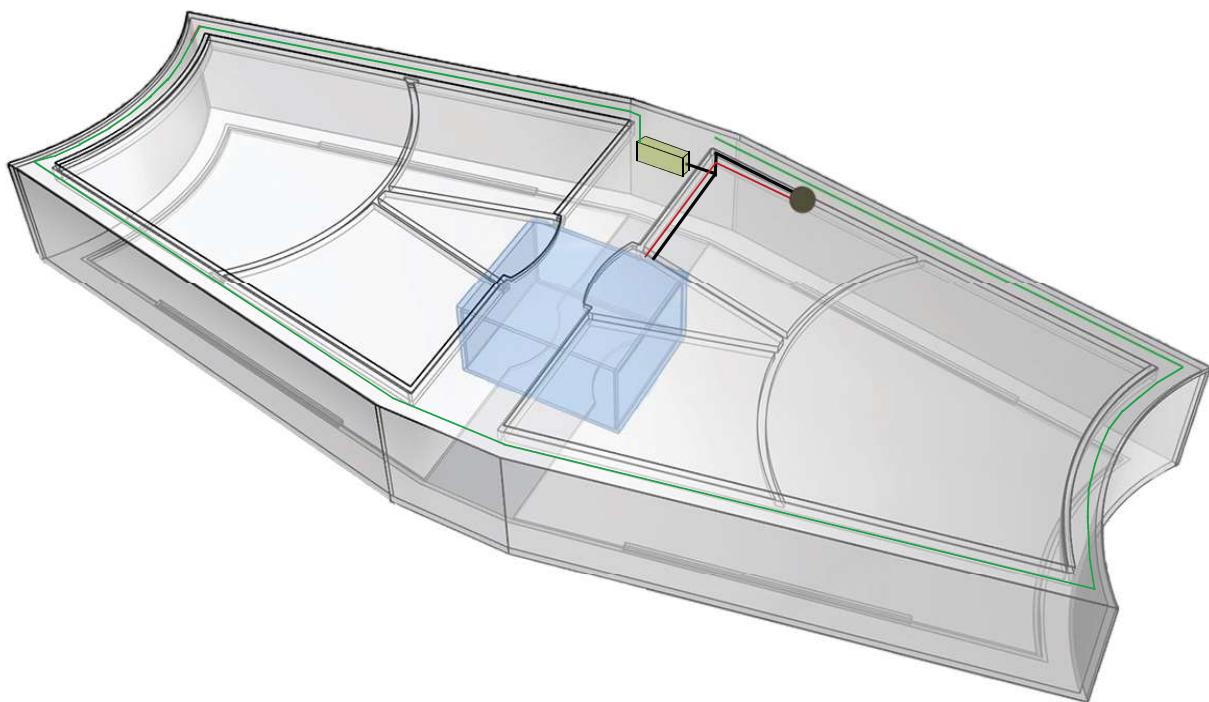
Step 6: Assemble wooden box using wood glue

Step 7: Attach box to top wooden panel



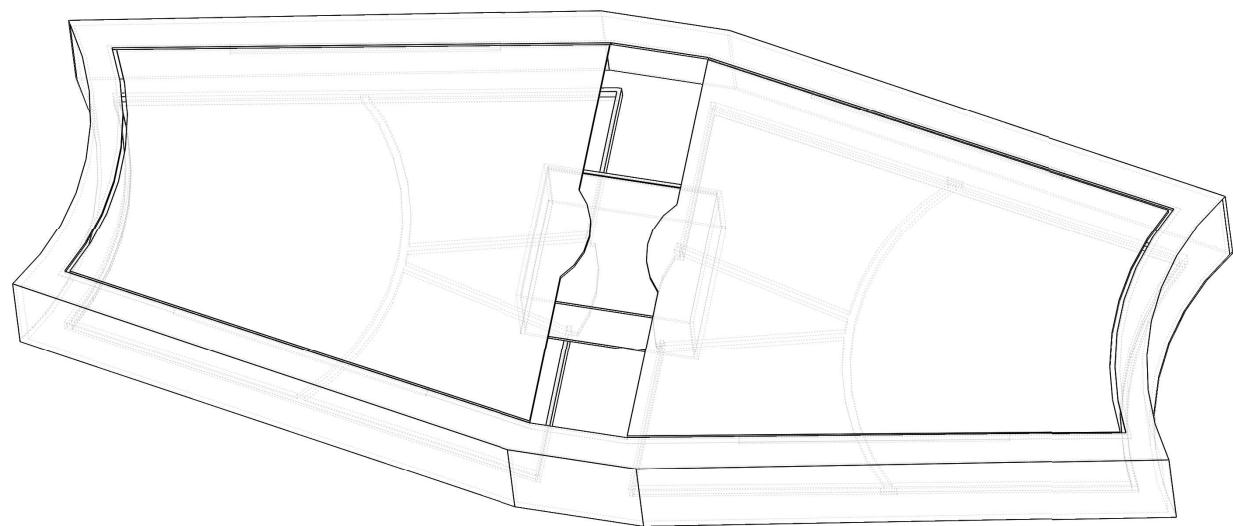
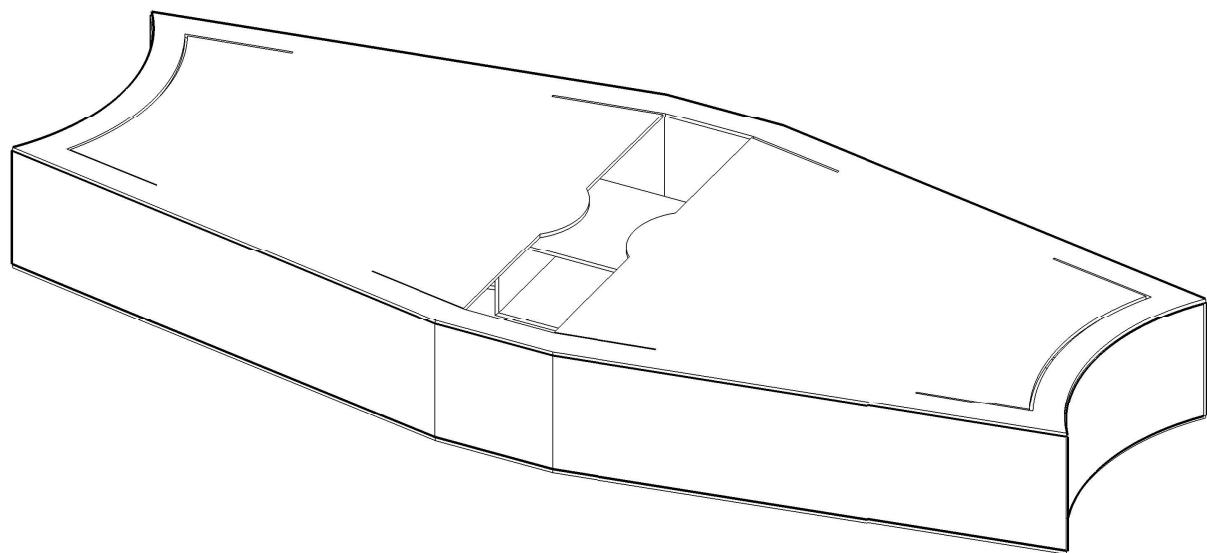
Step 8: Following the electrical map shown below, wire the battery box, the switch, and the led lights.

Step 9: Attach the LED lights onto the top wooden panel



Step 10: Attach the top wooden panel to the rest of the main frame with wood glue

Step 11: Insert battery



Bill Of Materials:

1/8in Birch Plywood 5'x 5' sheet: \$44.50

1/8in Diffusing Acrylic 4'x 4' sheet: \$42.50

Kite String: \$8.49

Wood Glue: \$5.97

LED Strip Lights (and dimmer) 32':\$24.99

Sandpaper: \$2.21

Kobalt 24-Volt Lithium Power Tool Battery:\$29.98

Soldering Iron: \$16.68

Black & Red 18 Guage Electrical Wire: \$11.99

E6000 Glue: \$4.98

Round Rocker Switch: \$1.50

Female Connector: \$0.50

Total Cost: \$194.29

