

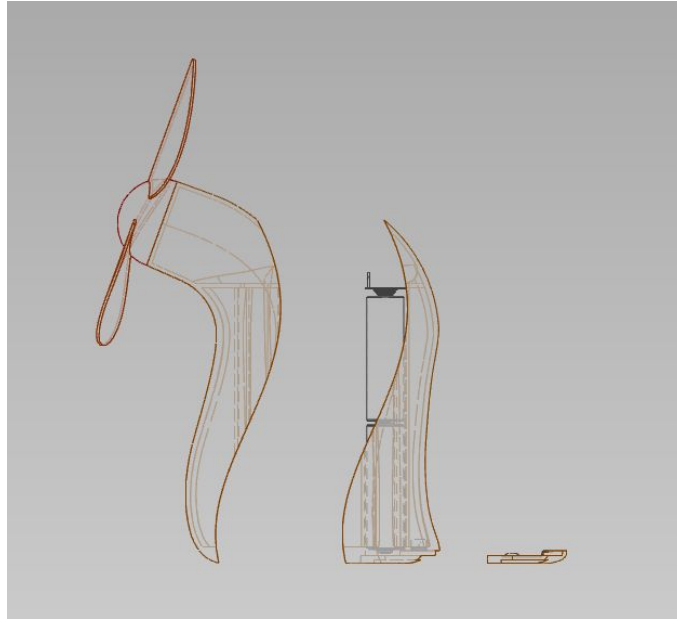
M3D MaxFan Project

Max Edward | M3D 2021

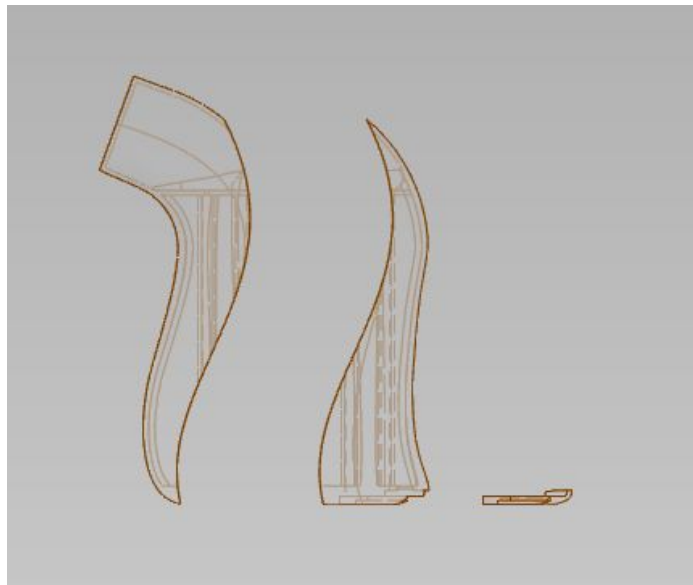
Name of Project: M3D MaxFan

Wireframe Pictures:

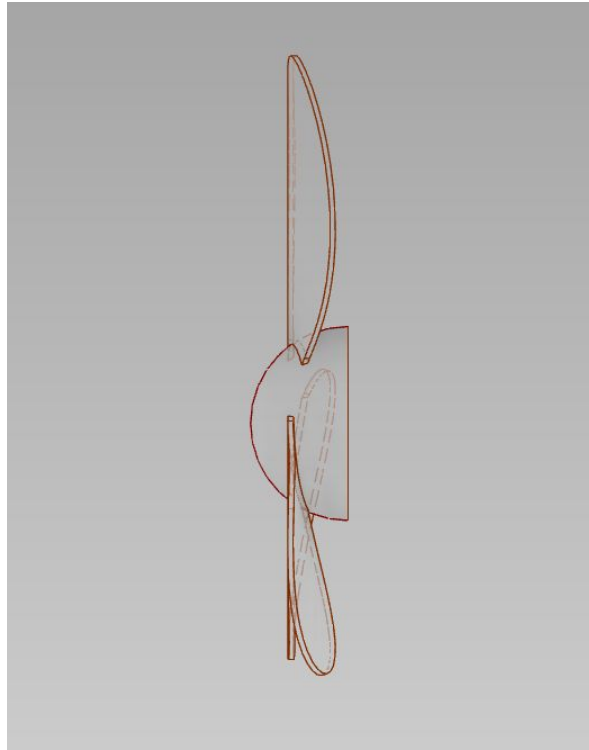
Assembly:



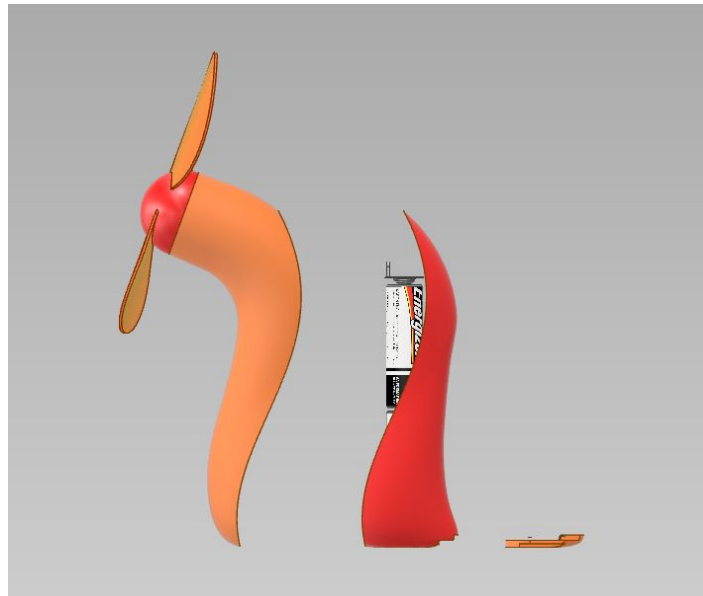
Main Body:



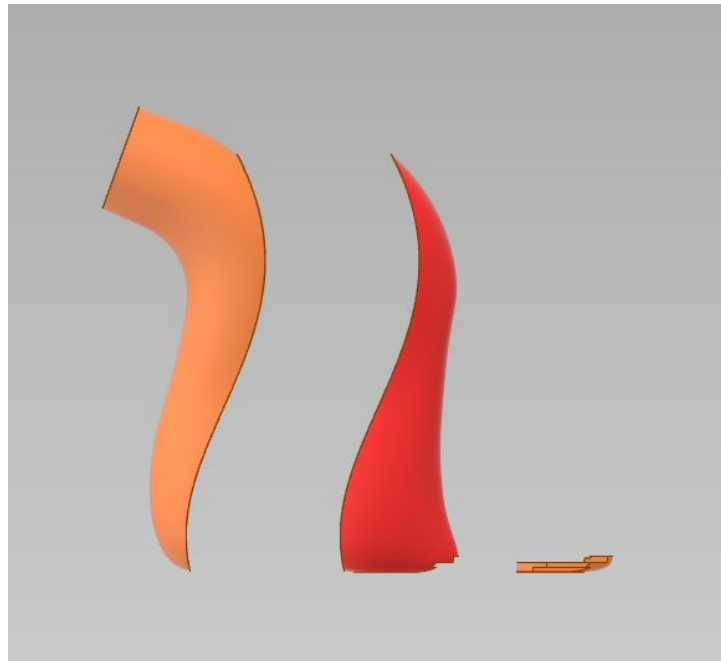
Fan Hub:



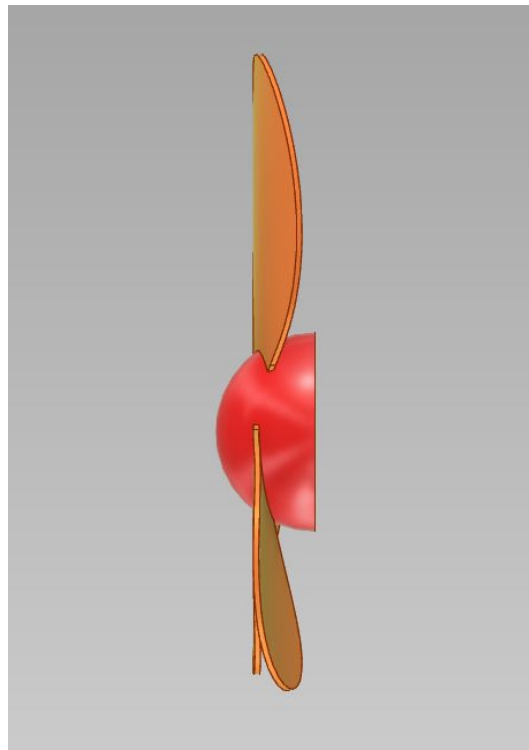
**Shaded Pictures:
Assembly:**



Main Body:



Fan Hub:



Describe how you plan to combine the different pieces into a single assembly (1-2 paragraphs).

Each piece of the model is a separate part. For example, the fan hub and the main body are two different parts. However, for ease of design I modeled both halves and the battery door of the main body in the same part file and might separate into different components at the end of the project.

While I am working on the main body I am keeping an up to date assembly so that I can check clearances and interference as well as overall what the model will look like when fully assembled. At the moment there are several different parts: Main Body, Fan Hub, Batteries, Positive Clip Top & Bottom, and the Negative Clip. The two parts still needed are the Switch and the Fan Motor along with wiring.

I plan to have the Main Body front and back come together with screws and the battery door at the bottom will slide into place and then be held in place by the spring tension once both batteries are inserted. All battery terminal clips are made from sheet metal and will be glued into place in their respective cutouts. The Fan Hub will be friction fit onto the end of the motor shaft and a bit of glue will be added so it will not slip at higher rpms.

I've included all up to date part files (at the time of submission) in my submission if you wish to see for yourself.