

Personal SolidWorks Project

By Troy Eskew

For my project, I chose to recreate the infamous Imperial Tie-Fighter from the Star Wars trilogy. It's as alien as the words used to describe it. Backed by a Twin Ion Engine (TIE), the fighter is used by the Galactic Empire for various purposes. Some popular models include the Tie-Bomber and the Tie-Interceptor, as well as Darth Vader's famous Tie-Advanced X1. For an obvious Star Wars fan, it was exciting to make for my project.

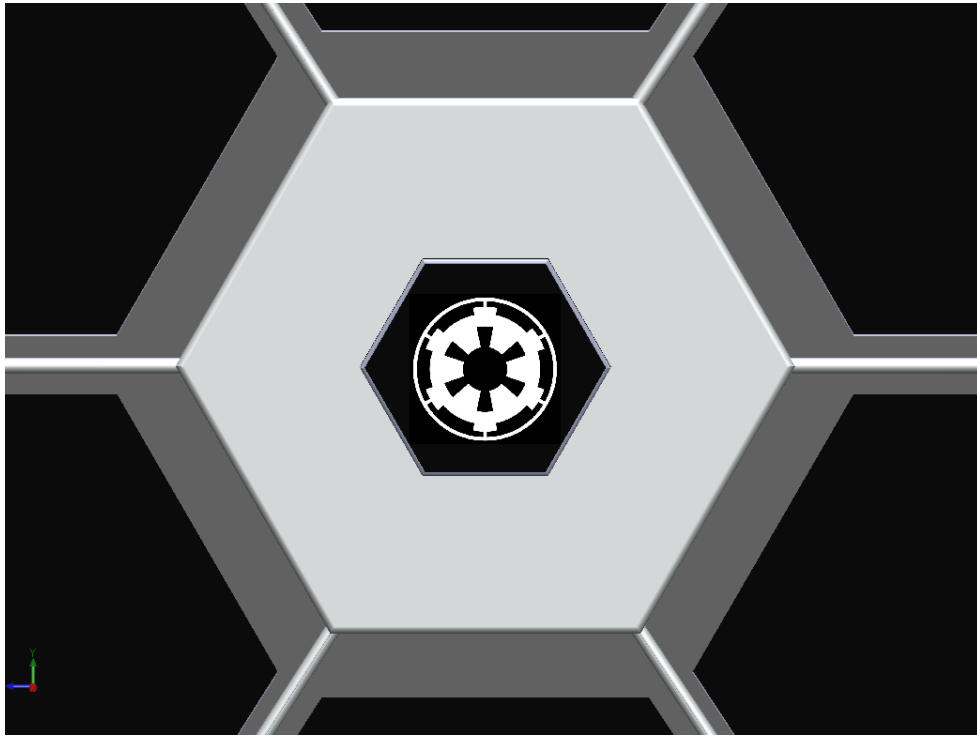
For the project, I made two different wings and the main pod separately then assembled them. Both wings use the same tall hexagon design but the outer wing has added detail. The hardest part was accurately dimensioning the wings given no blueprints to work with. On the ends of the outer wings is the Empire's logo, which I imported as a JPEG, however this did not show up in the render. The wings have different layers to depict the structure and supports in the wing. The black parts are sunk in and the whiter ones are extracted and raised.

I had the most fun designing the main pod as I explored different revolving, extruding, and extracting techniques. For the main center sphere, which is hollow, I made two concentric half circles that resemble an arc. I revolved this around its base 360° to create the hollow sphere. Then, I added two cylinders to either side of the pod to create the arms to the wings. A lot of the rest of the design just involved adding detail. This process was the best part as I got to creatively think of ways to attach square parts onto a rounded sphere. This may have been the hardest part but I confuse it to be the most interesting.

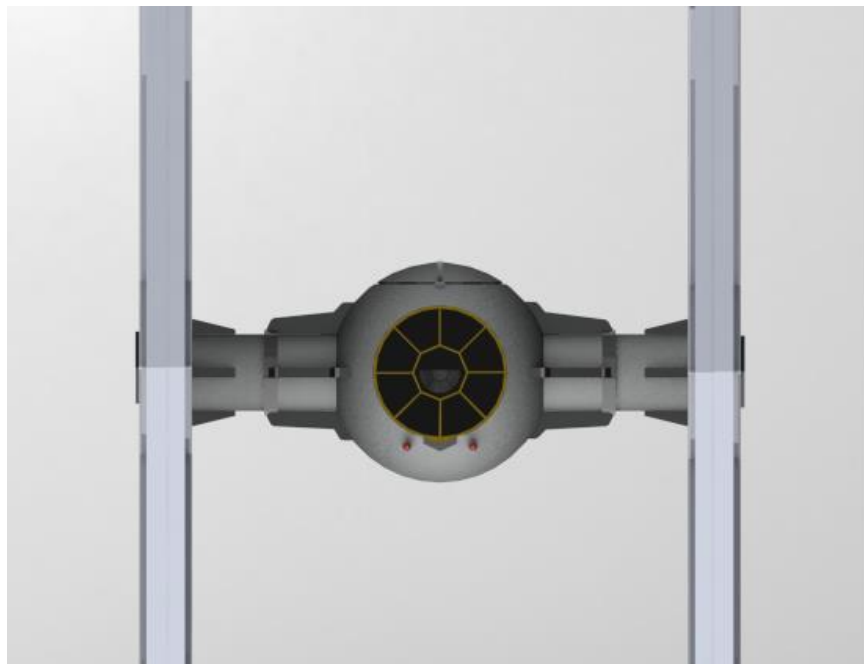
Render of Isometric View



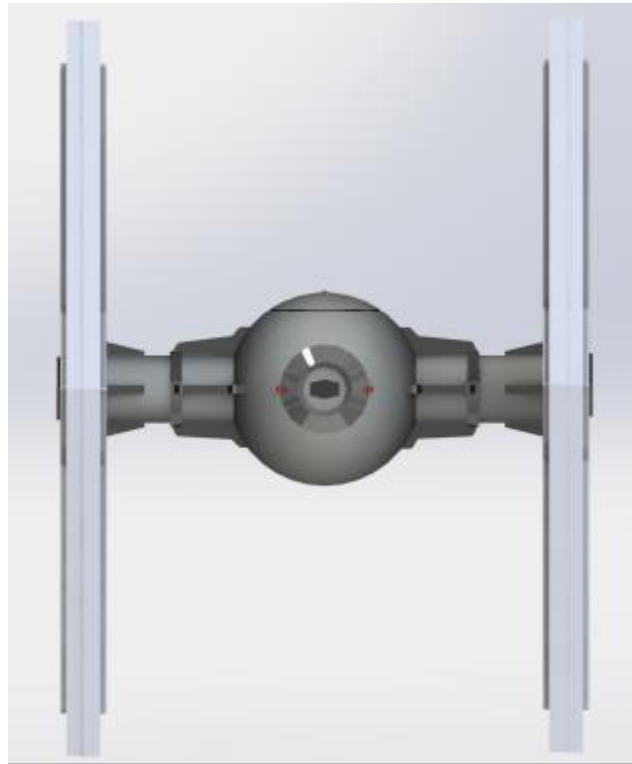
Side View of Wing and Logo



Render of Front View

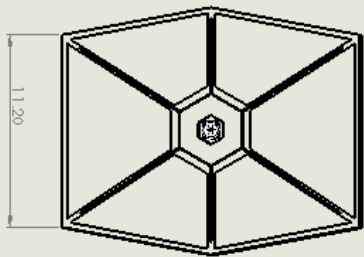
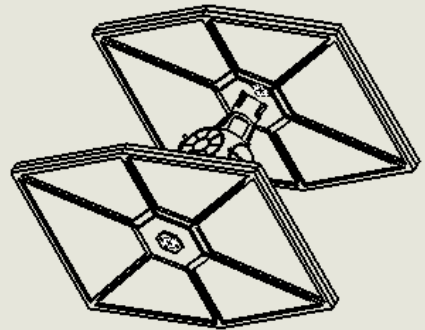
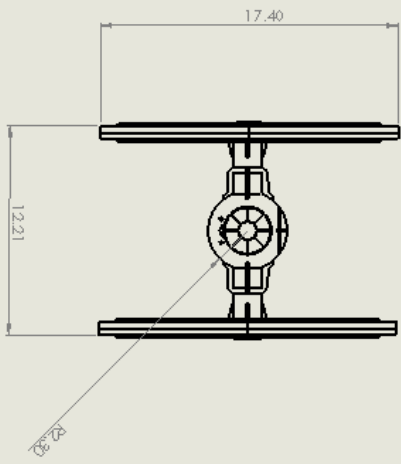


Render of Back View



Render of Top View



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