

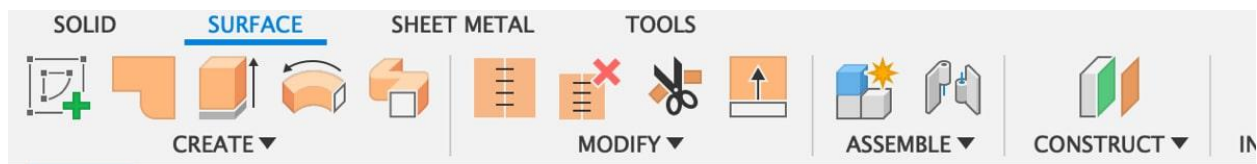
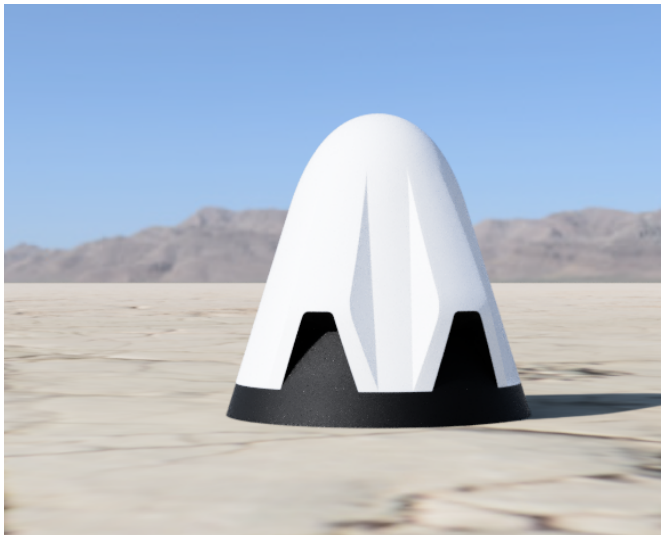


## DRAGON CAPSULE

**The** Dragon capsule, also known as the Pressurized section, allows for the transport Of people as well as environmentally sensitive Cargo. Dragon is equipped with Draco

thrusters that allow Dragon to maneuver while on orbit and 8 SuperDracos that power the spacecraft's Launch escape system.

The Rendered images on the right are the final outcome of the spaceX Dragon capsule that was attempted to model for this assignment. This model is created using Fusion 360's surface modelling tools like surface revolve, stitch, patch loft, trim, rule, fillet and pattern.

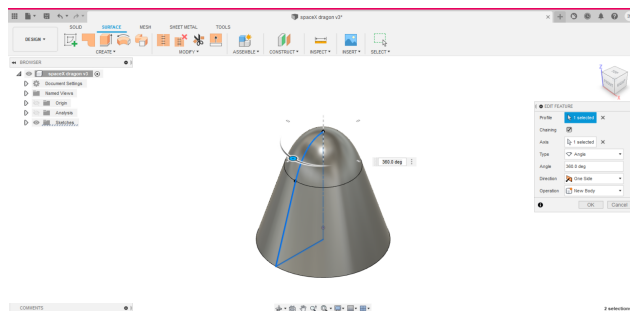


## Step-1: First sketch:

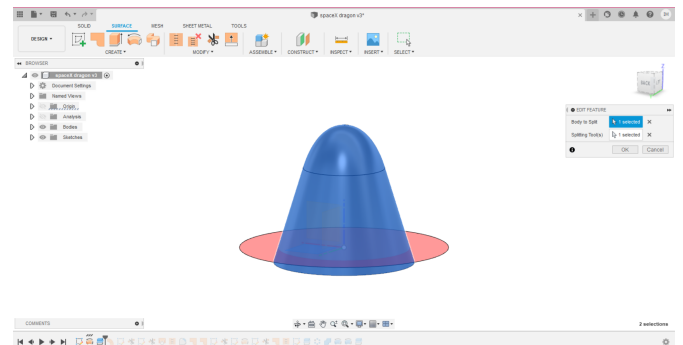


The initial sketch is made using Line and spline tools.

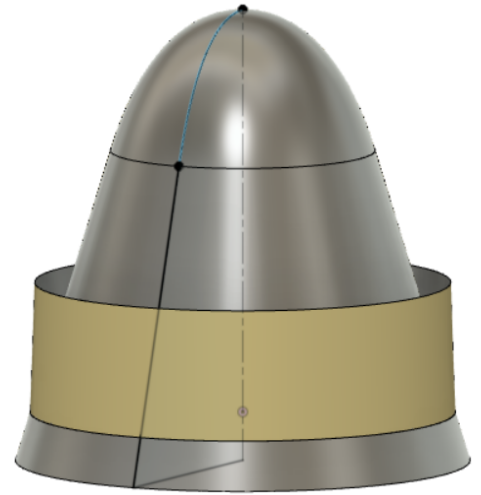
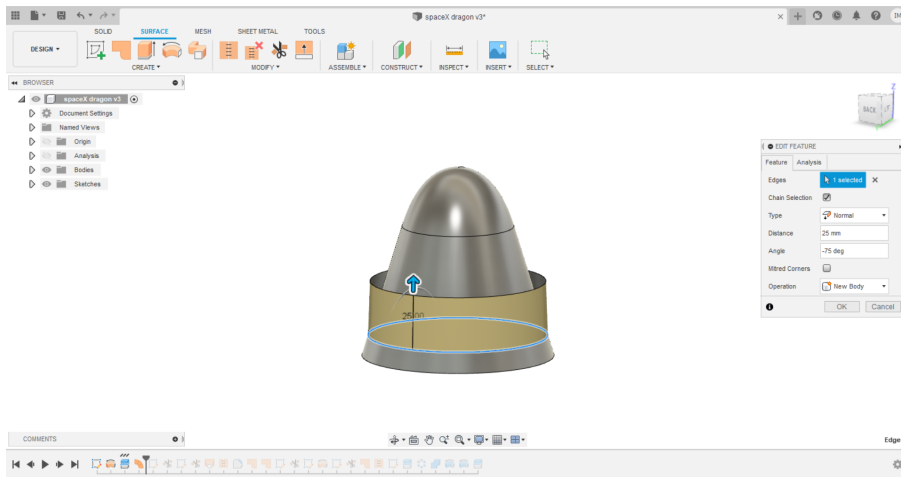
## Step-2: Revolve surface command:



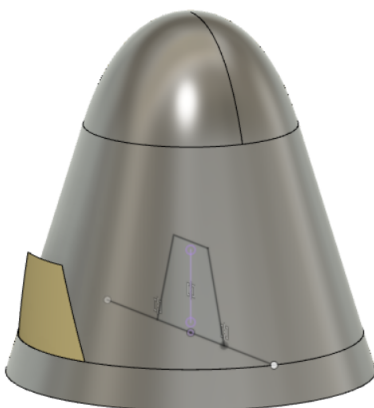
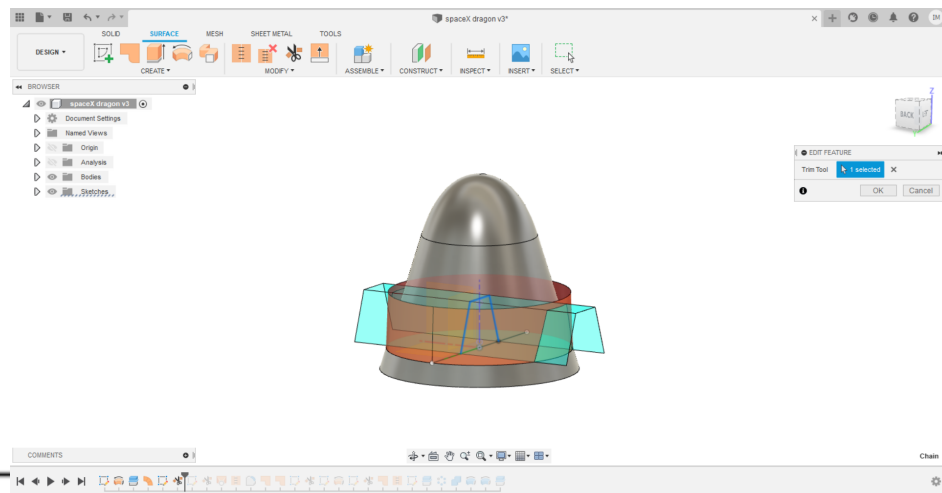
## Step-3: Body split command to hide the base and focus on the upper half of the model:



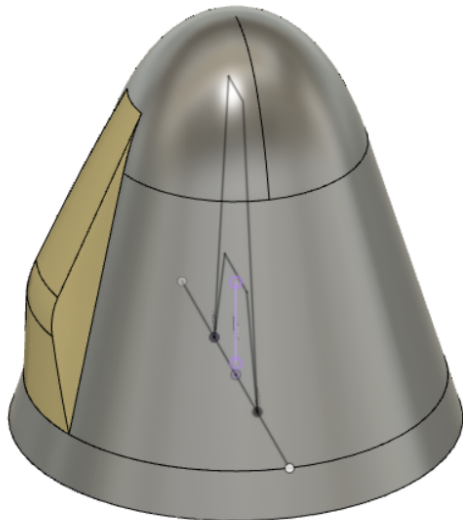
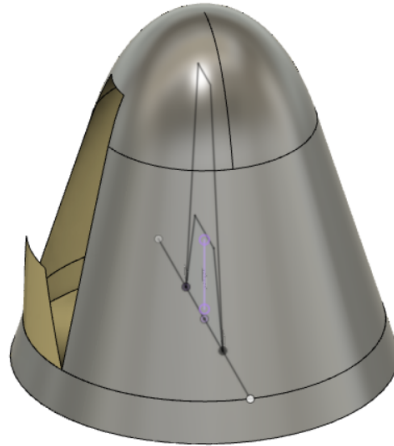
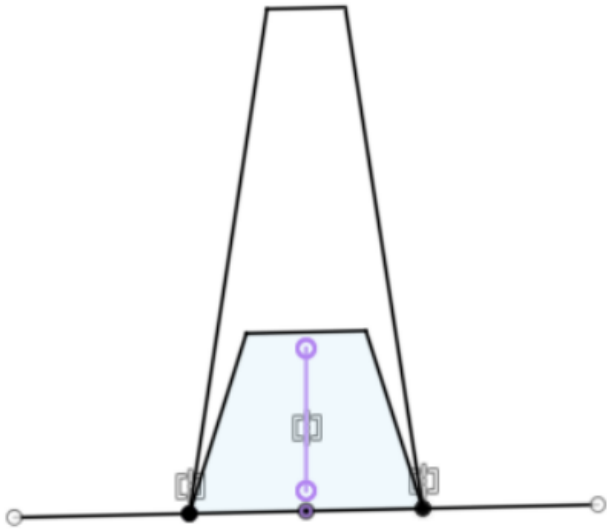
## Step-4: Rule command:



## Step-5: Sketch for trim command:



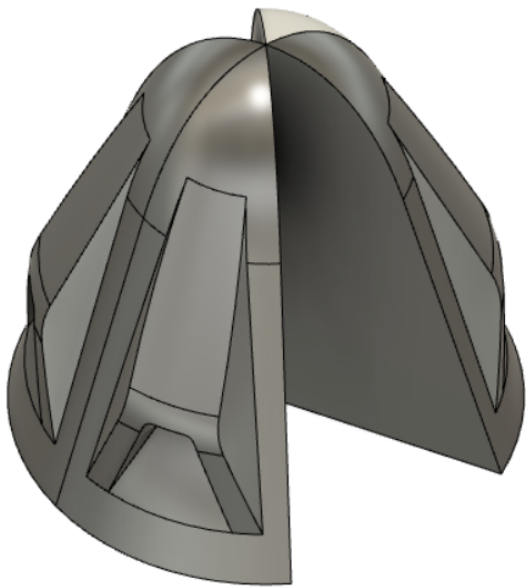
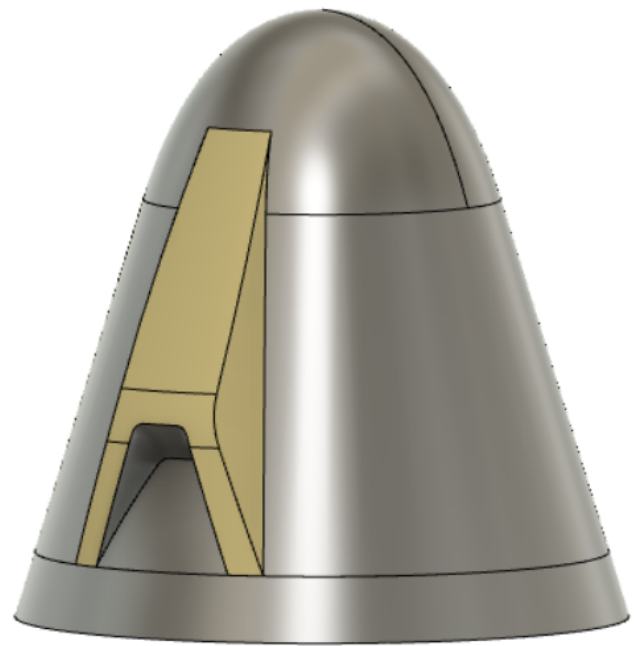
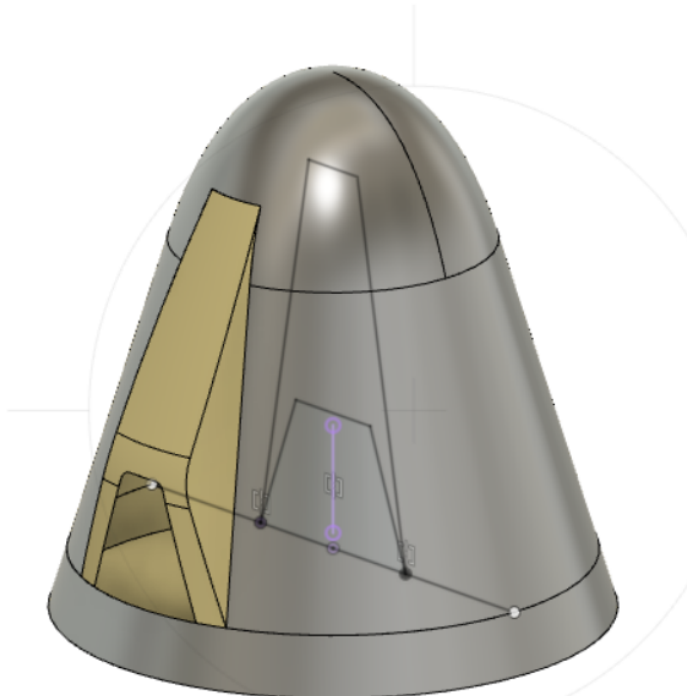
Step-6: **Second trim:**



Step-7:

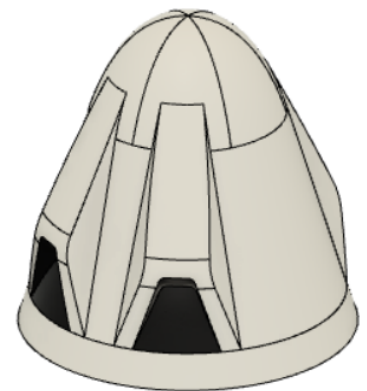
**Loft then stitch then fillet and  
Then patch commands to obtain the  
Final surface:**

Step-8: **Final trim before making the internal features:**



Step-9:  
**Pattern**

Step-10:  
**Final model before rendering**



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**CAD/CAM Assignment-1**