

# ✂ Assignment: Drone Frame Design Using SolidWorks/Fusion 360

## Assignment Objective:

Design a **3D CAD Model of a Drone Frame** using **SolidWorks/Fusion 360**, based on the provided 2D engineering drawings and dimensions.

## Assignment Guidelines:

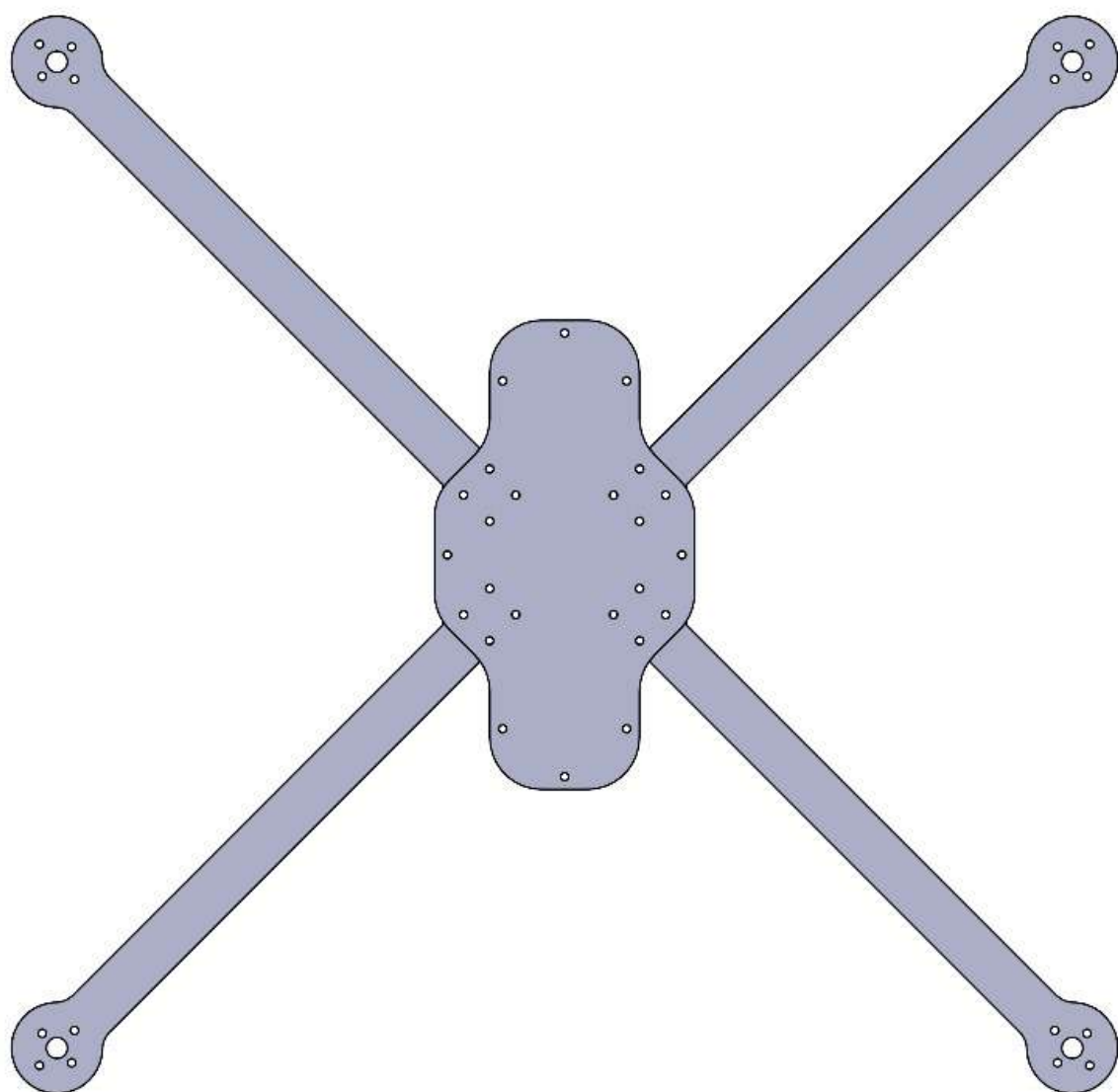
1. **Use SolidWorks Software/Fusion 360** (as taught during the workshop).
2. Carefully observe the **given 2D drawings** with dimensions.
3. Create a **3D model** of the drone frame **exactly matching** the specifications.
4. Ensure proper use of:
  - Extrude/Boss/Base features
  - Fillet or Chamfer as needed
  - Assembly (if creating a multi-part structure)
5. Name your file as: **YourName\_DroneFrame.SLDPRT**

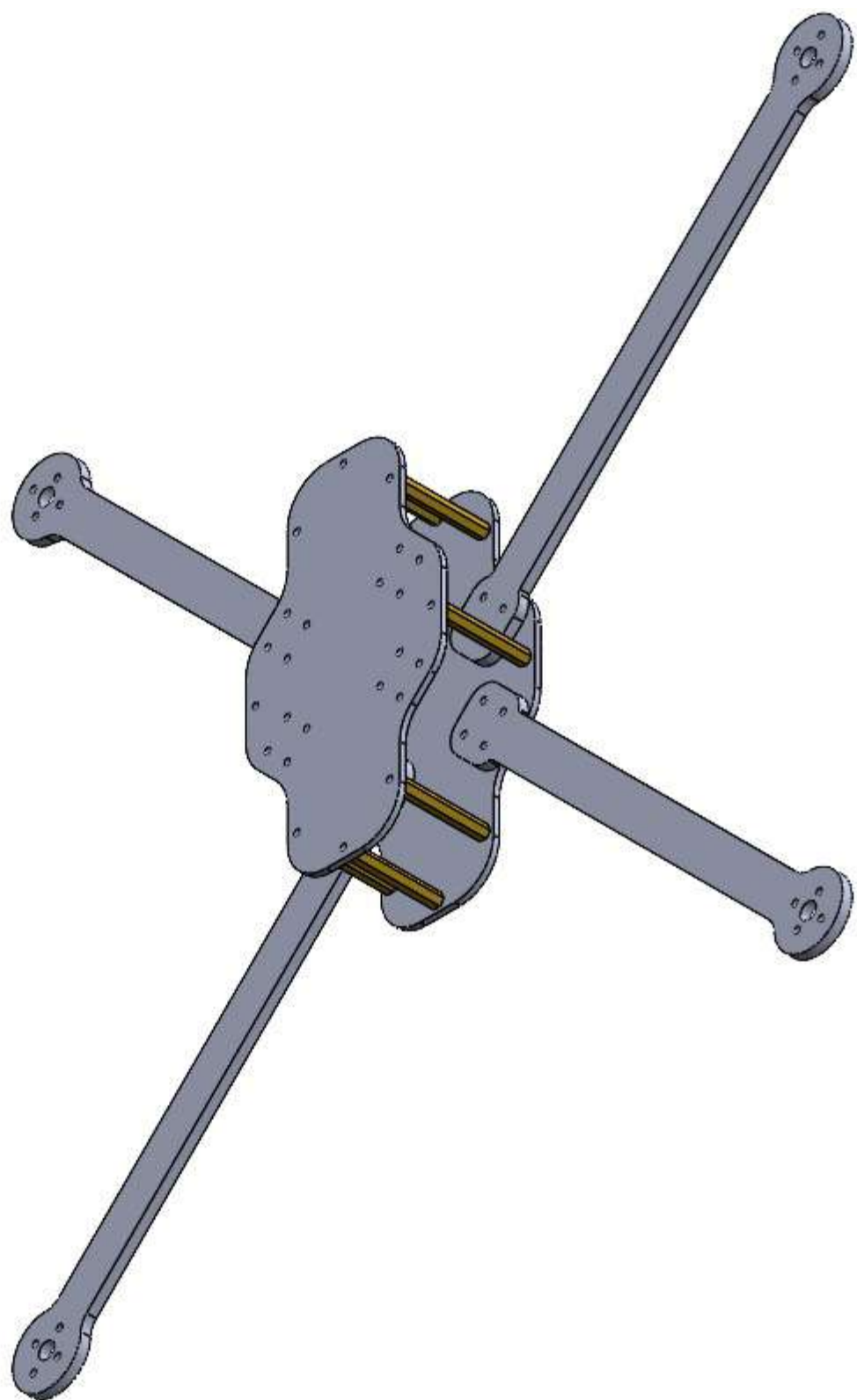
## Note:

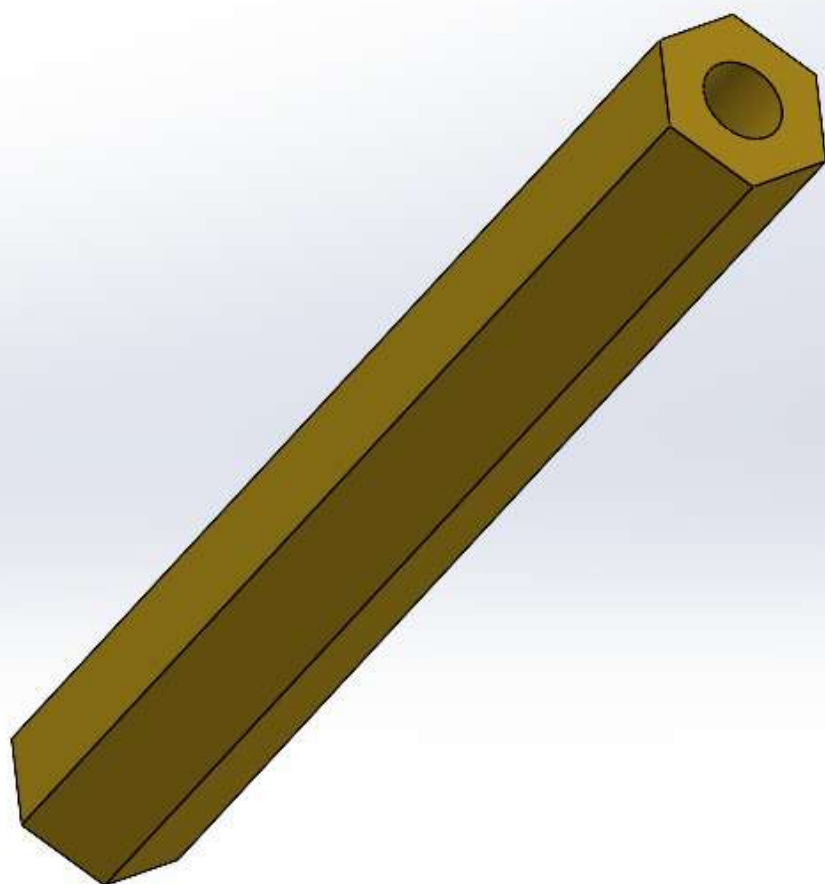
This assignment will help you build your **technical portfolio** and get hands-on experience in **aerostructure CAD design**.

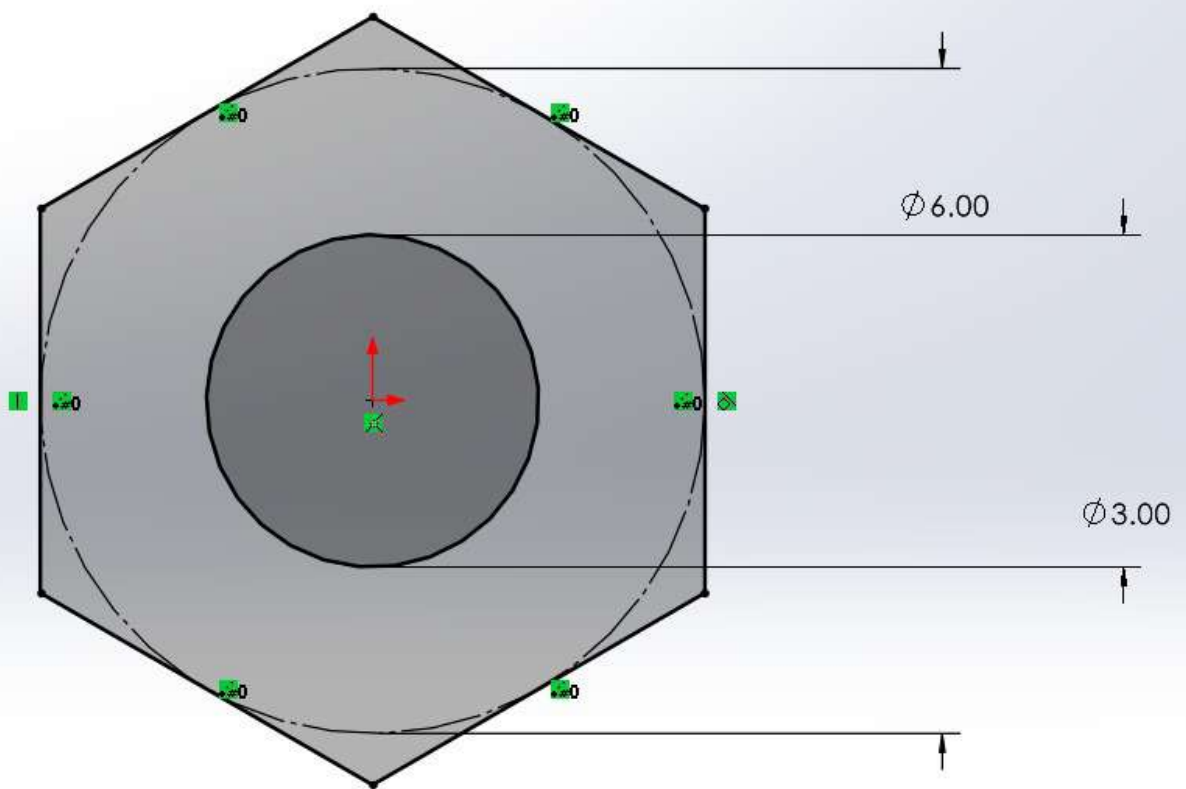
The CAD drawing images are attached below. If you face any difficulties, feel free to reach out in the support group or email us.

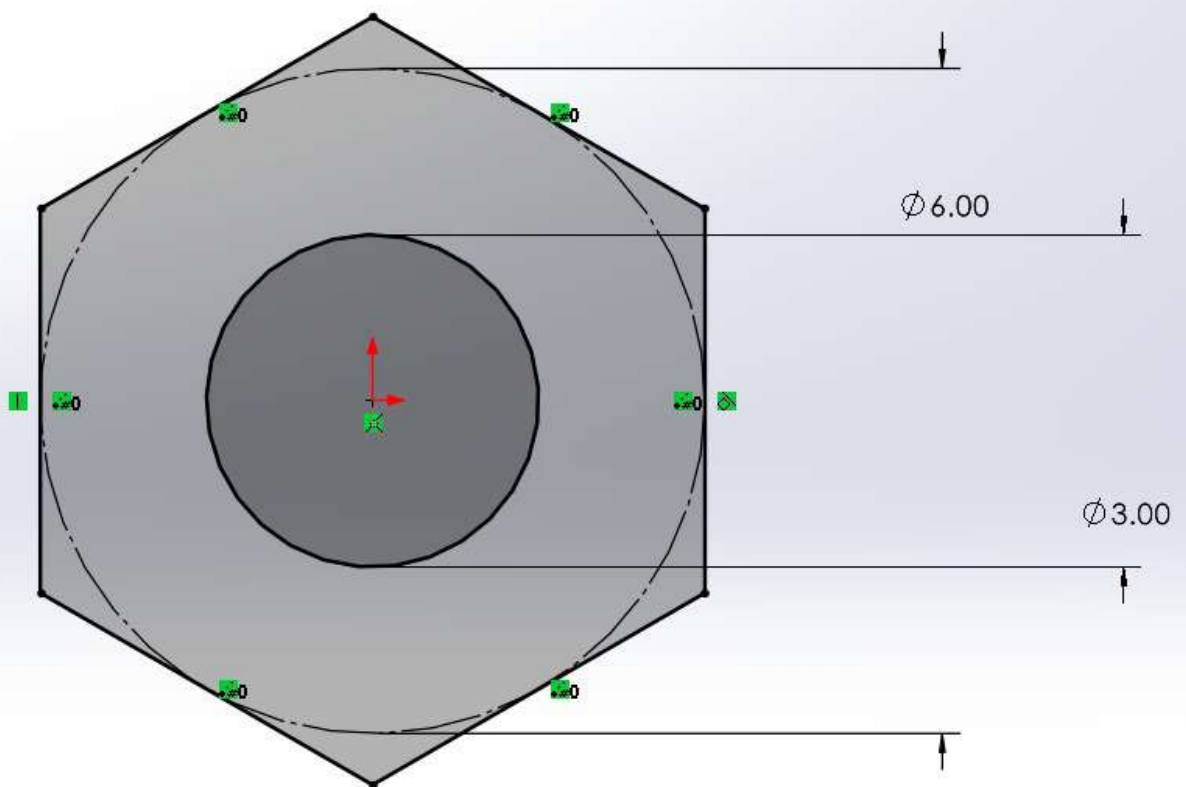
All the best,  
**India Space Lab**





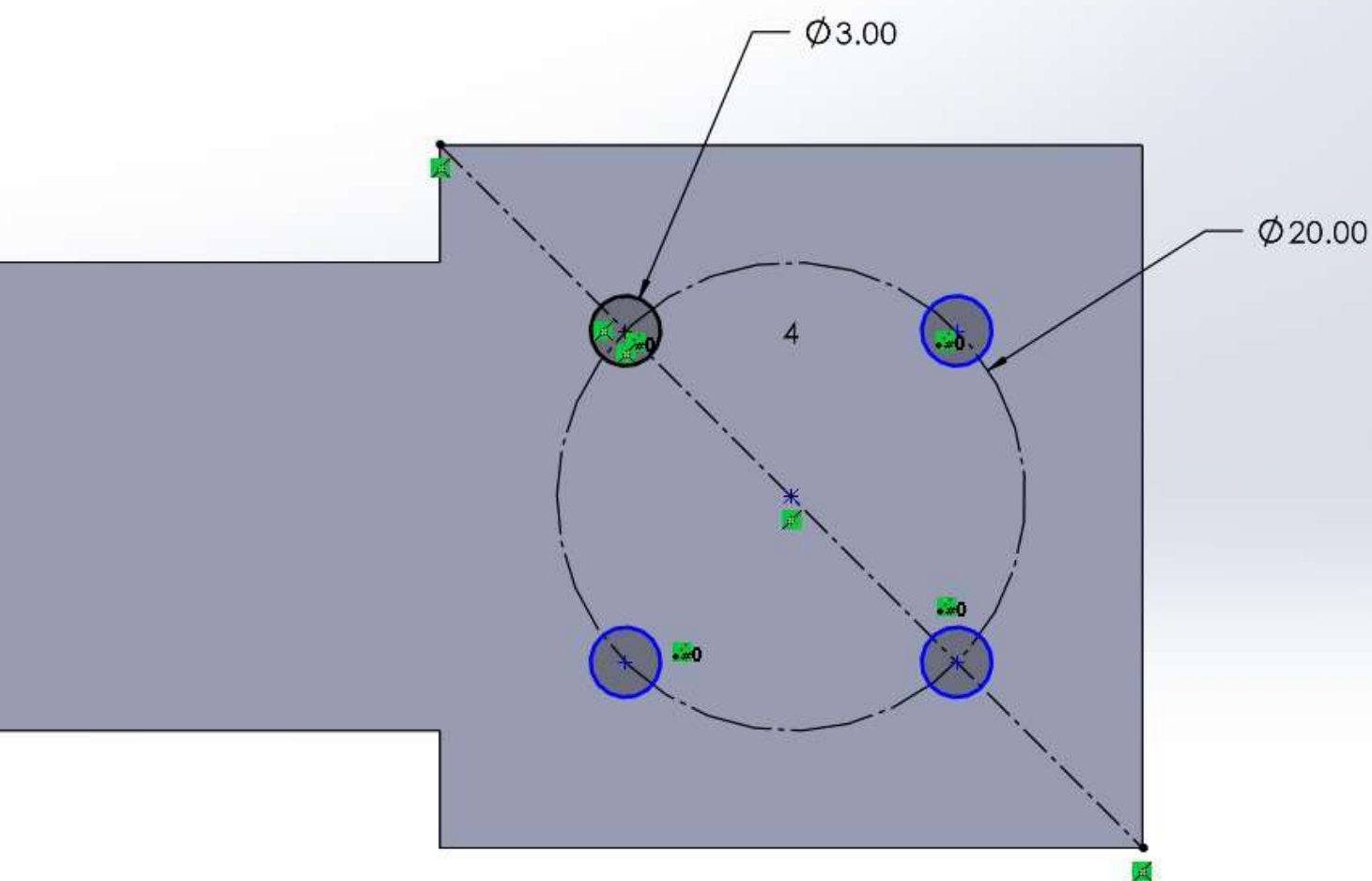




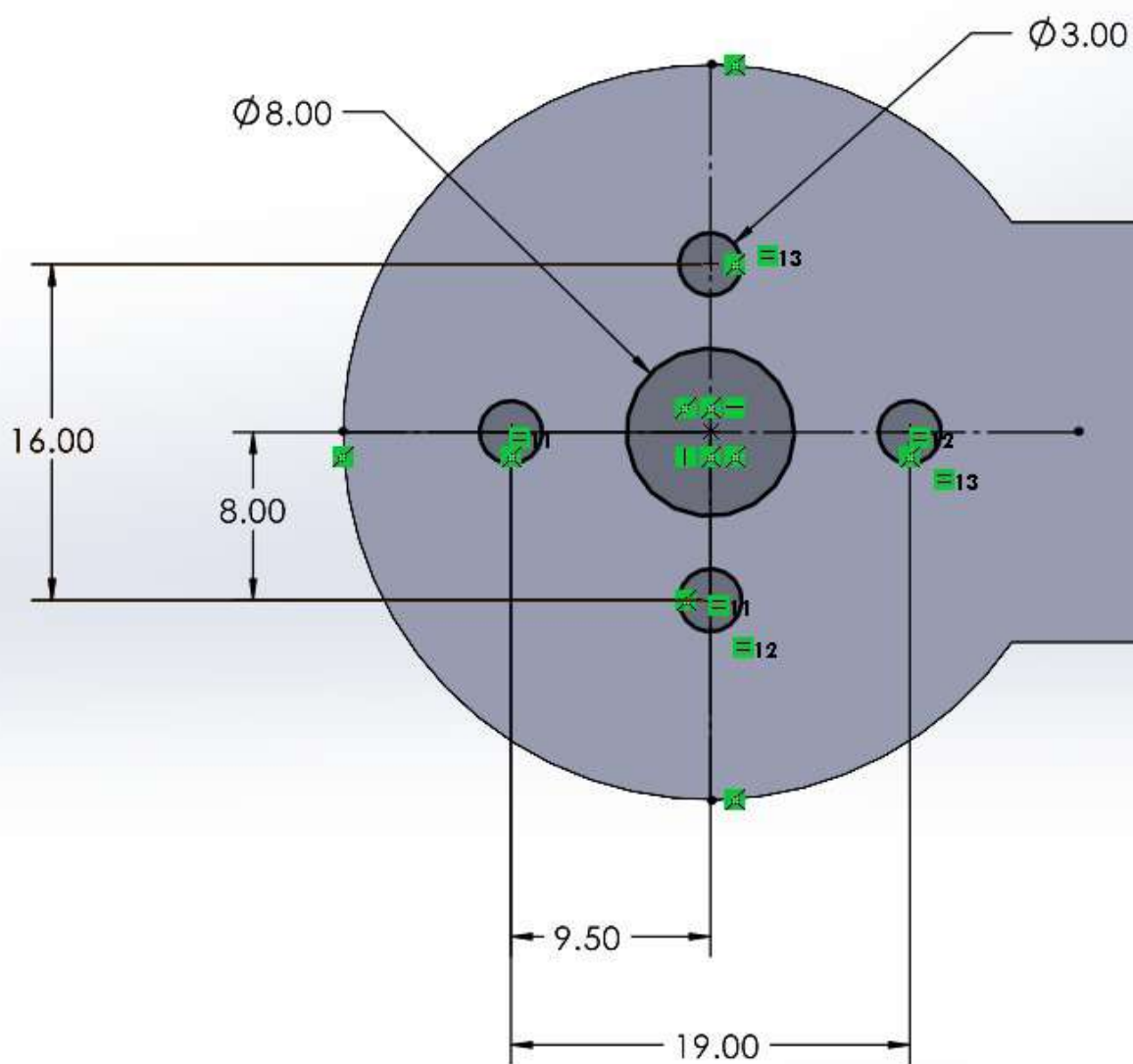


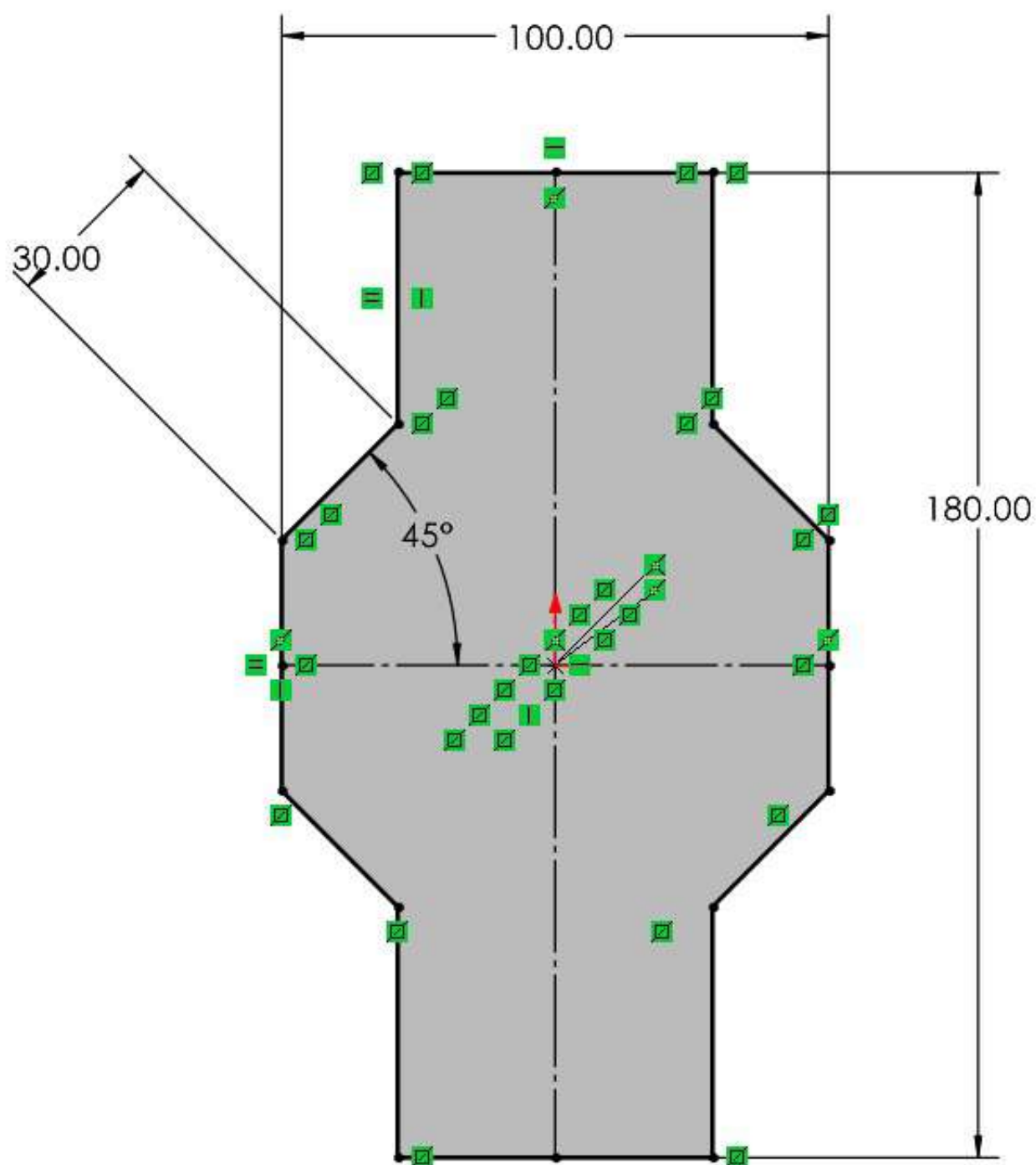


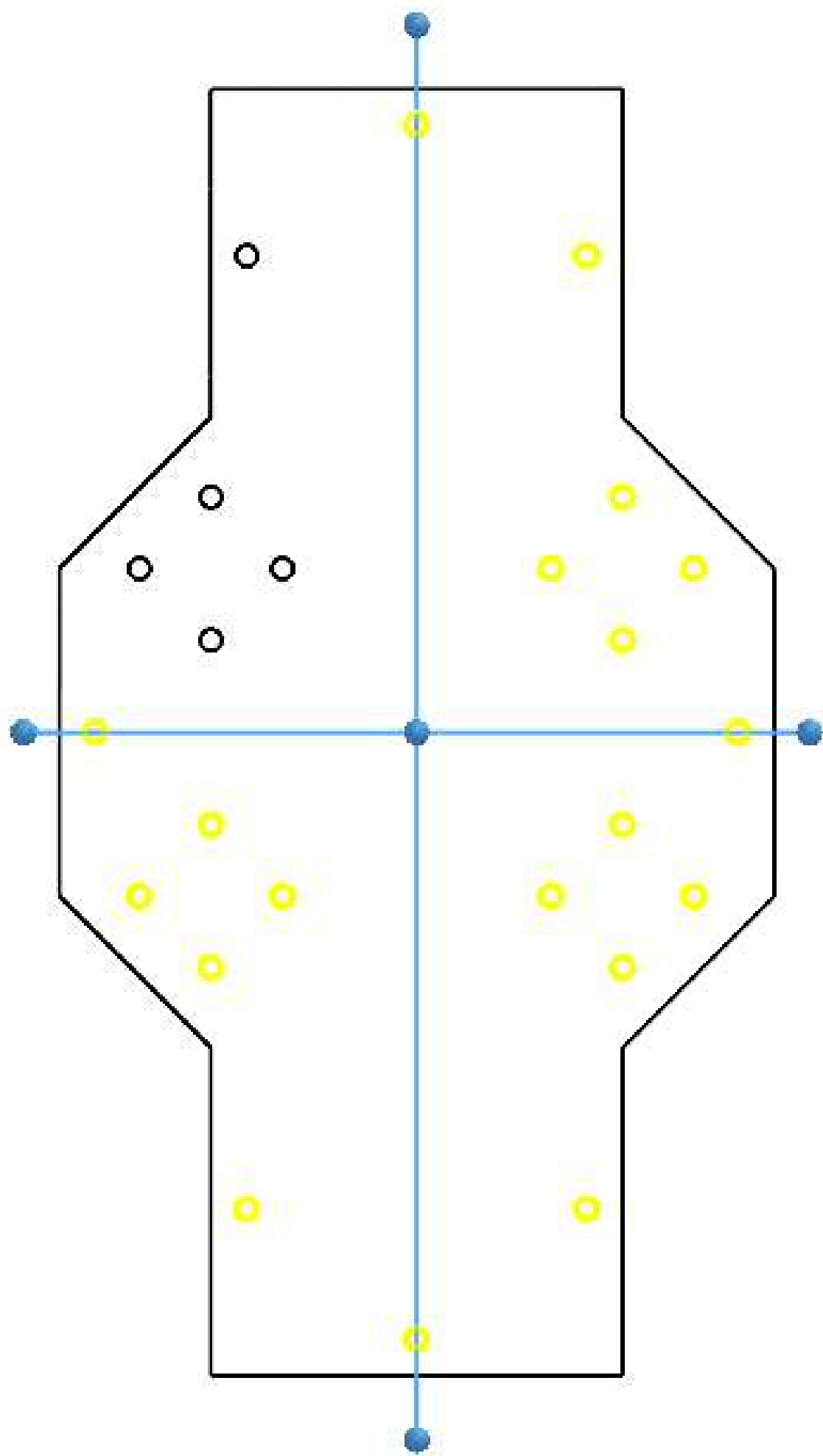
Radius: 10mm

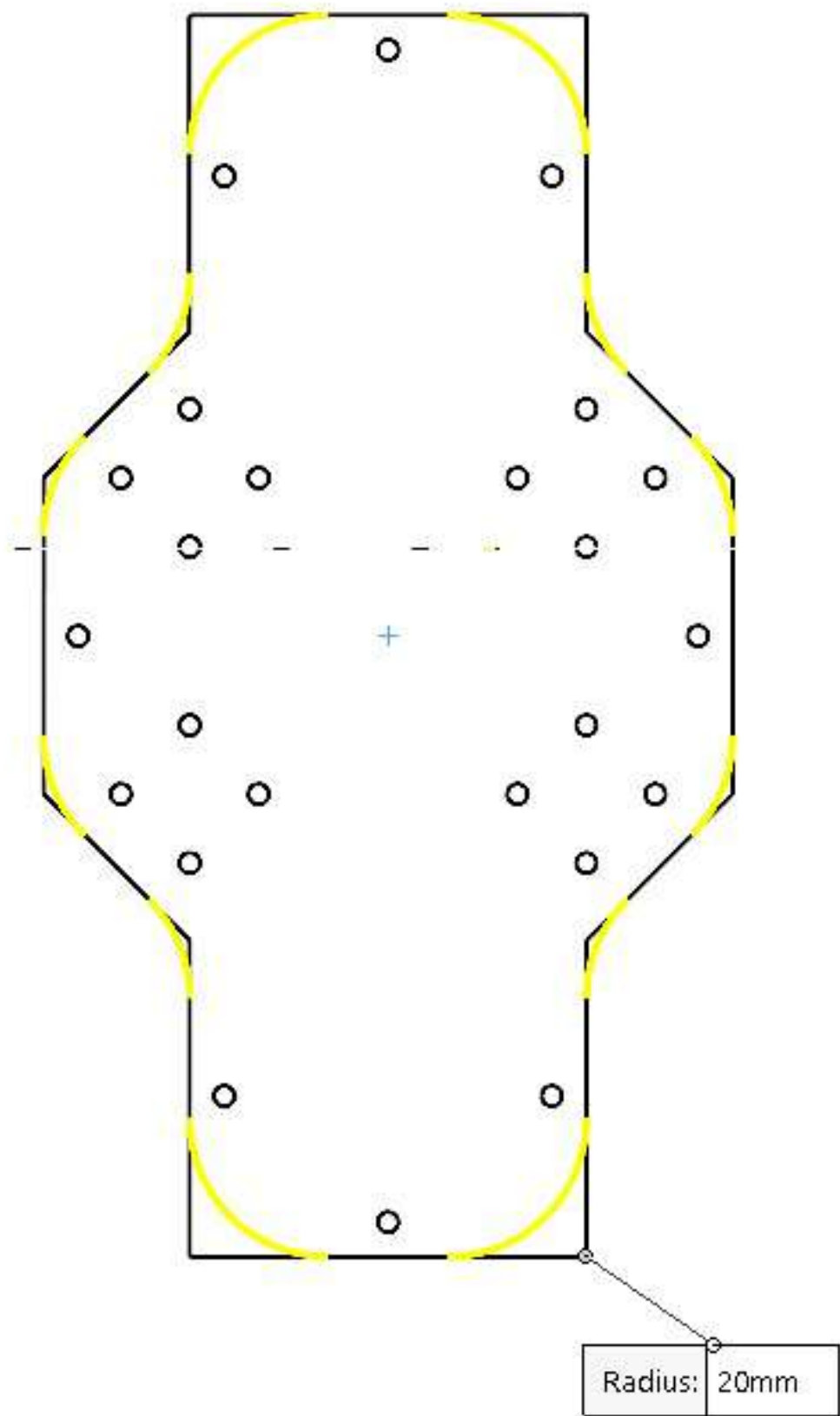












**Boss-Extrude1**

From: Sketch Plane

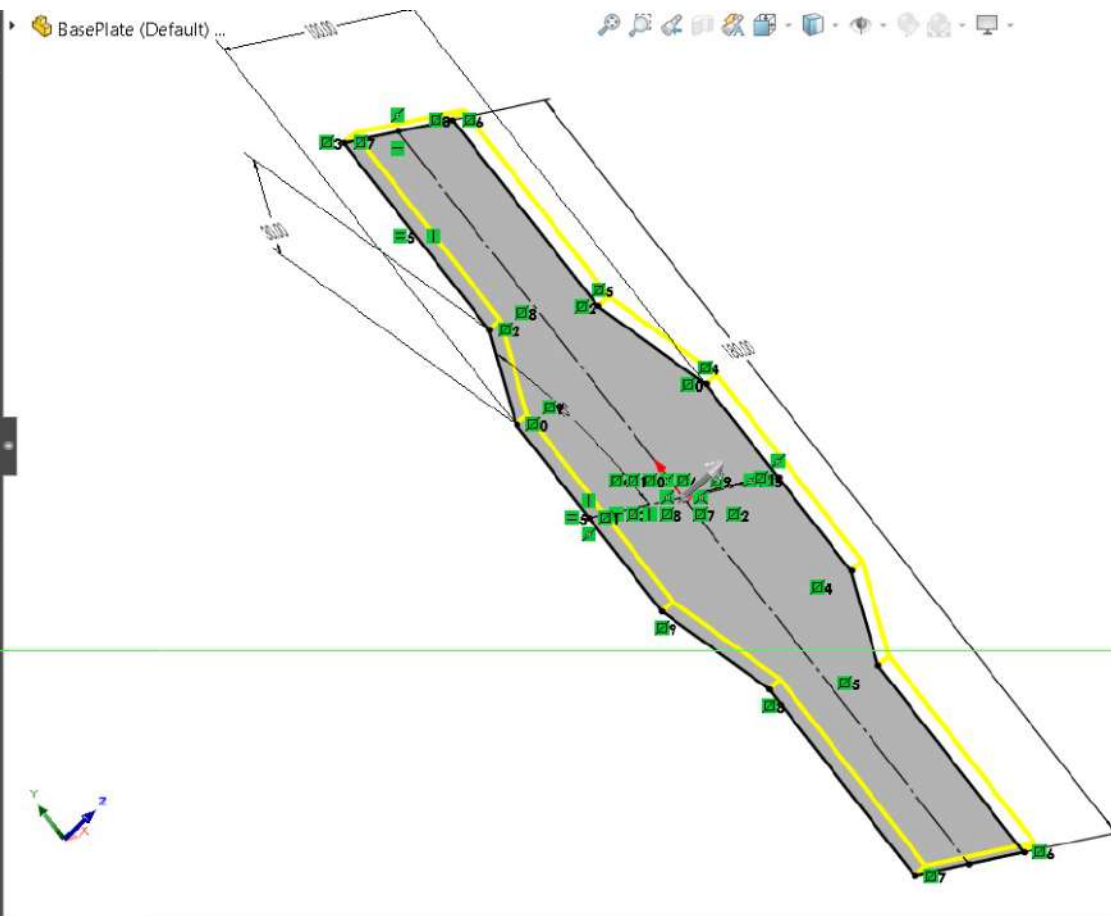
Direction 1: Blind

3.00mm

☐ Draft outward

☐ Direction 2

Selected Contours



DroneArm (Default) ...

