



University  
of Windsor

## Assignment Template for Uploading to Blackboard

MECH 4259

Summer 2021

### Assignment #1

Last Name: Posarajah

First Name: Arjun

Lab Section: 52

After completing the front page,

- a) answer the questions on page 2,
- b) Insert a representative CAD screen capture image on top of page 3,
- c) Insert a representative Stress screen capture image at bottom of page 3 ,
- d) save this template as PDF,
- e) upload according to the instruction provided by the instructor.

GA initials	Questions out of 5	CAD image out of 2	Stress image out of 3	Total out of 10

Answer the following five questions (5 points):

1- What type of element was used? Solid / Shell / Beam

Solid

2- What order element was used? Linear/Parabolic

Linear

3- What material was used?

Steel

4- Where is the most critical position for static failure?

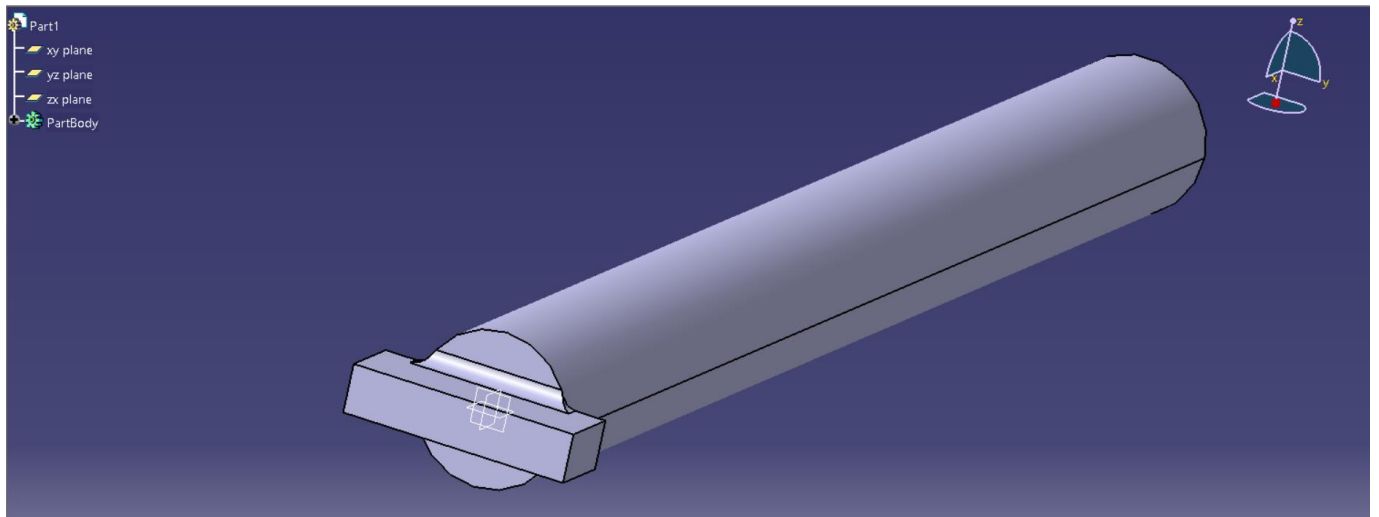
The outer edges of the fillets near the cylindrical part.

5- How many elements do you have in the model?

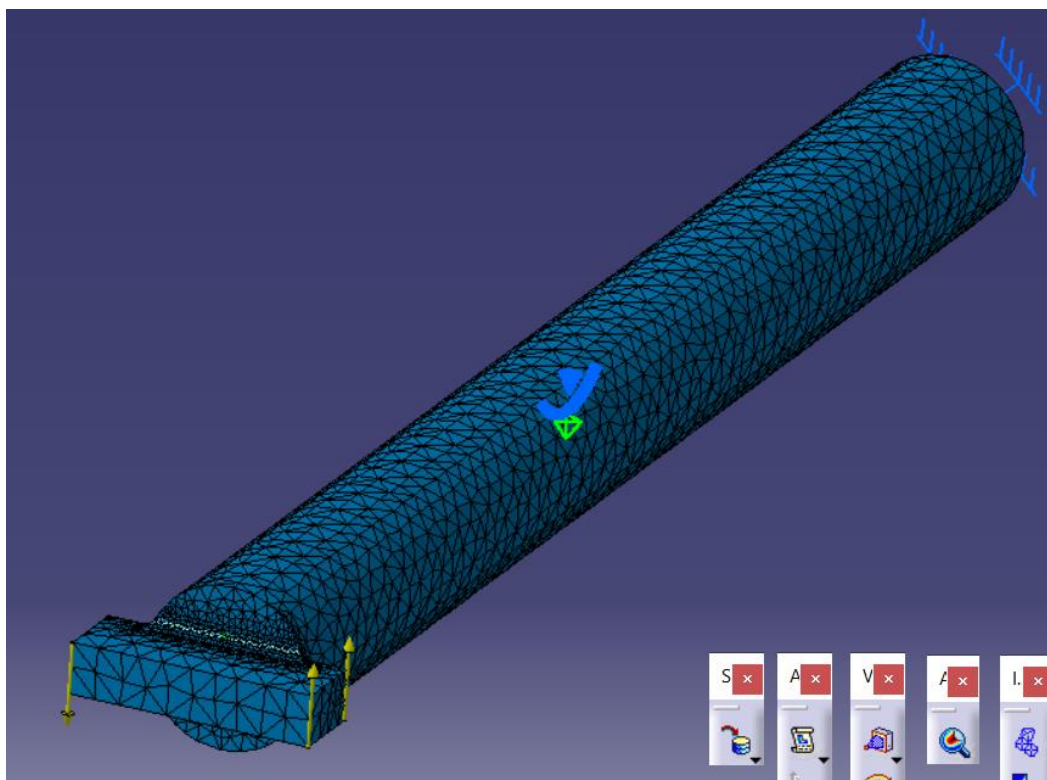
20343 elements

4867 Nodes

Insert a Representative CAD Screen Capture Image (2 points):



No planes of symmetry



Insert Representative Stress Screen Capture Image (3 points):

