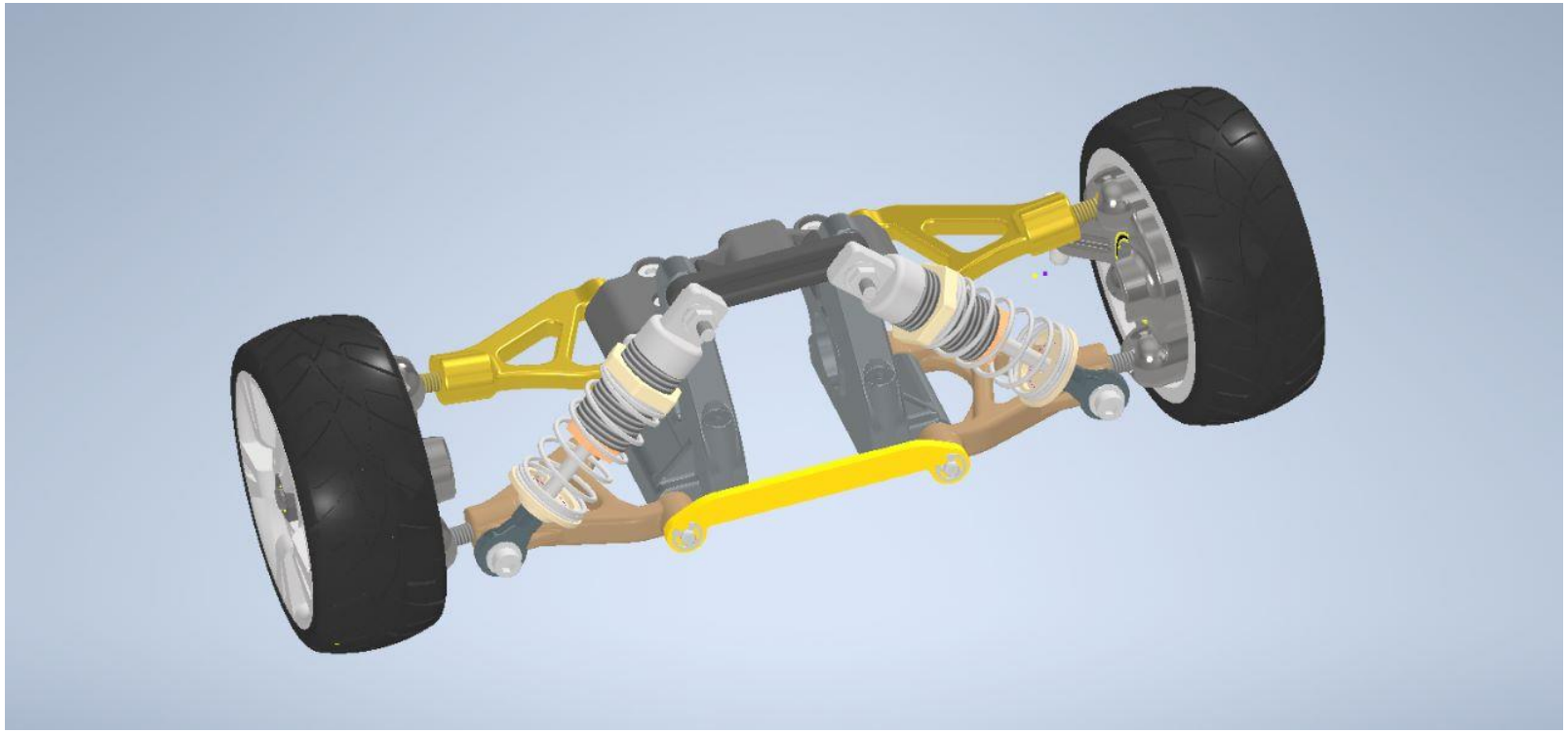
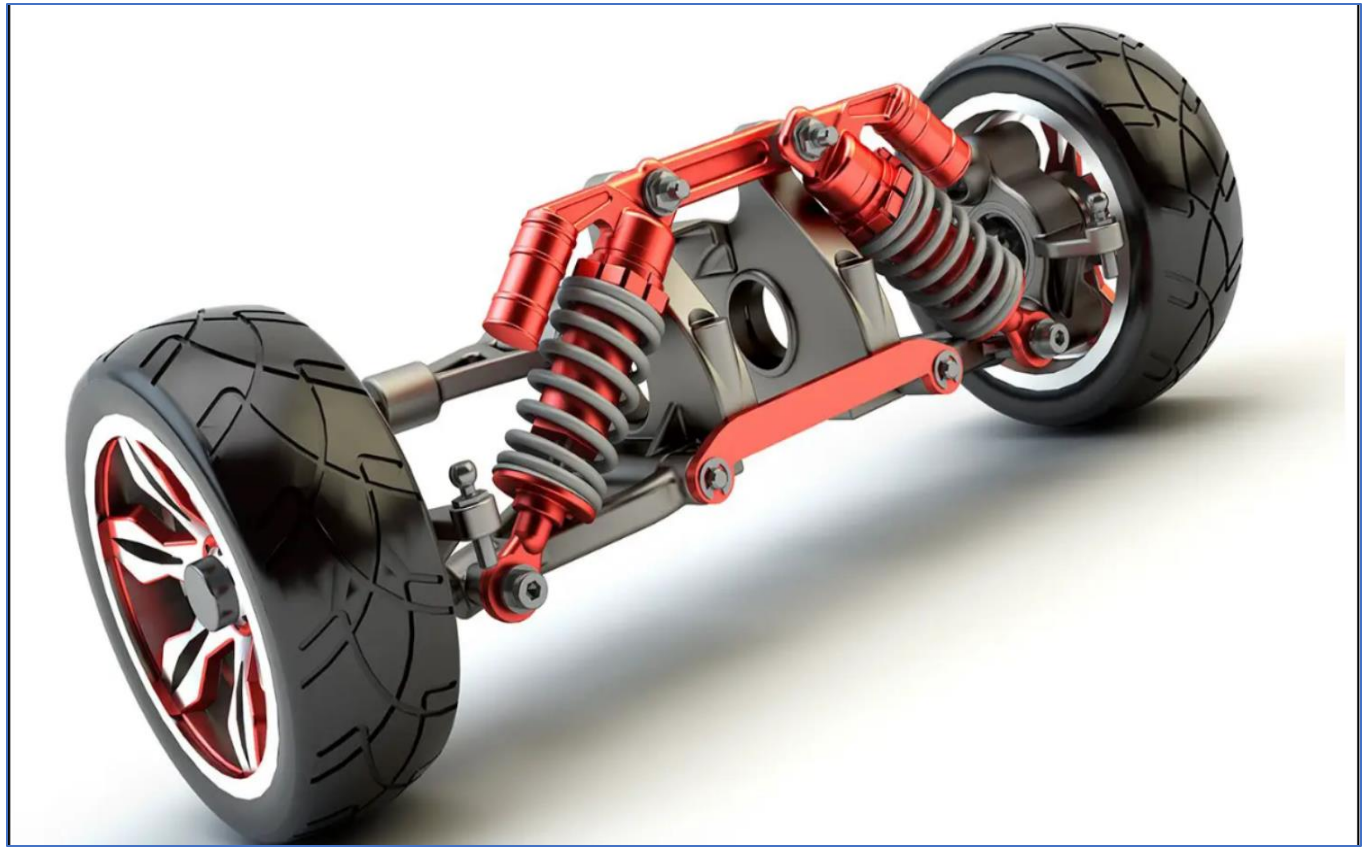


Final Report

Double Wishbone Suspension System

Group 5

Motivation



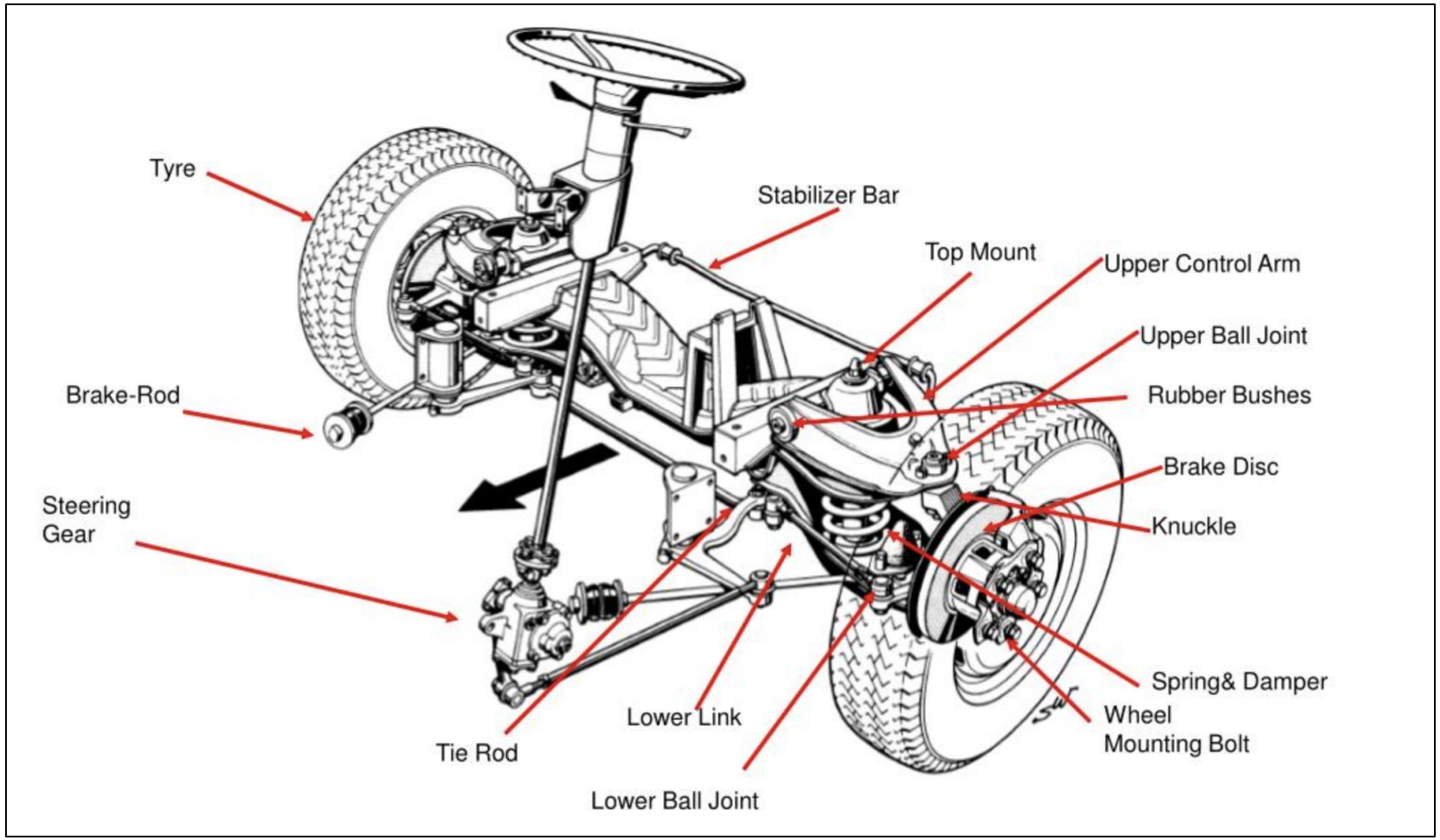
Double Wishbone Suspension System

Help understand the complexity in the design and working of the suspension system.

Enhance our modelling skills in Autodesk Inventor through practice of various modelling techniques and functionality and assembly constraints.

Process

Research



Credits : https://image.slideserve.com/1160272/double-wishbone-suspension-l.jpg

Breakdown into subparts

We analyzed the structure of the whole suspension system to break it down to individual components.

Process

Structural analysis and preliminary sketches

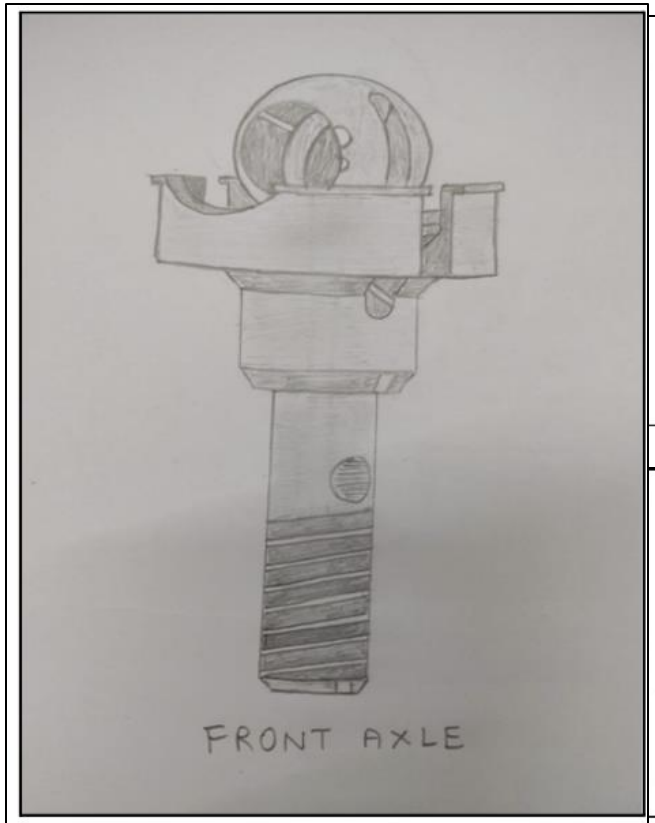


Fig 2(a): Front Axle

Fig 6(a): Shock Absorber

Fig 4(a): The Front Upper Arm

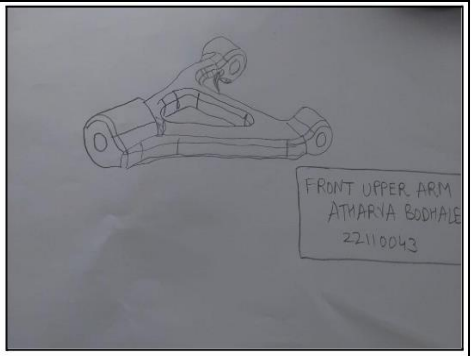
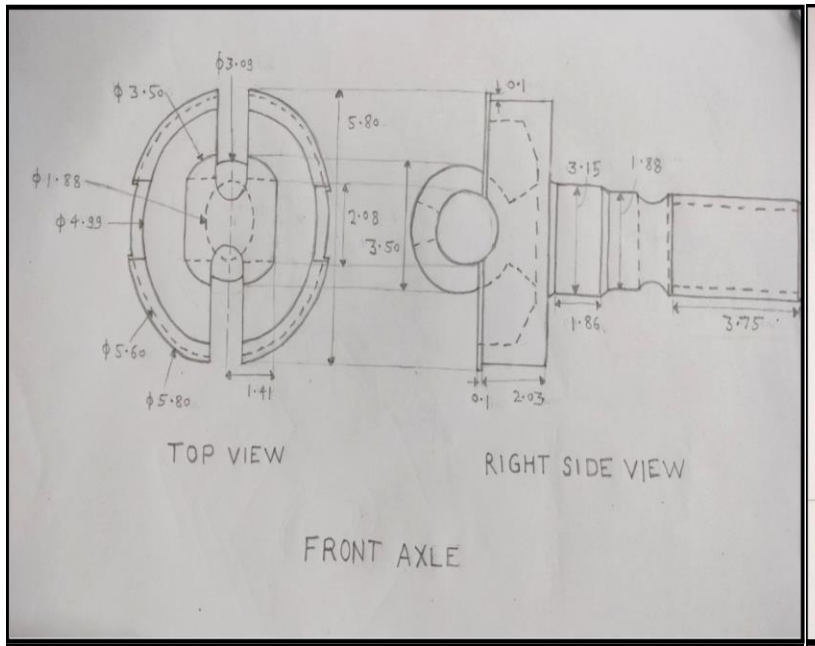


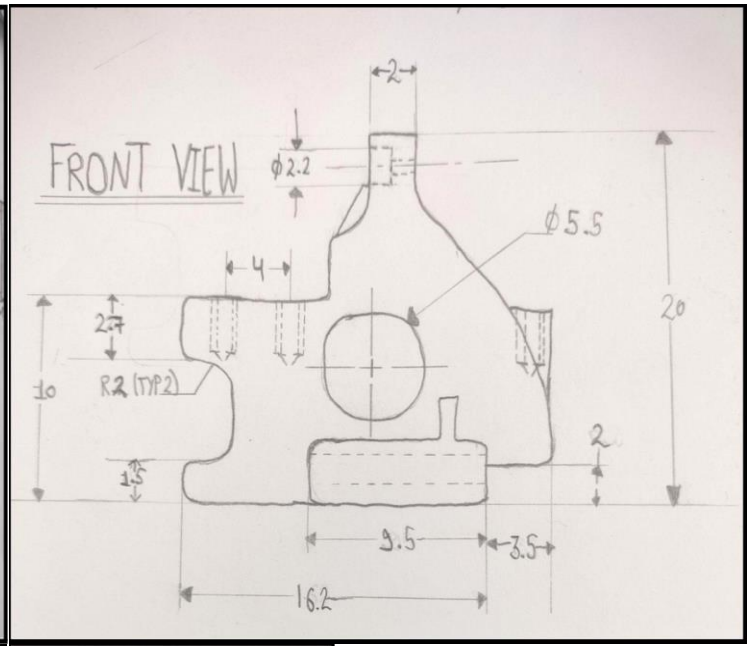
Fig 4(b): The Front Upper Arm Sketch

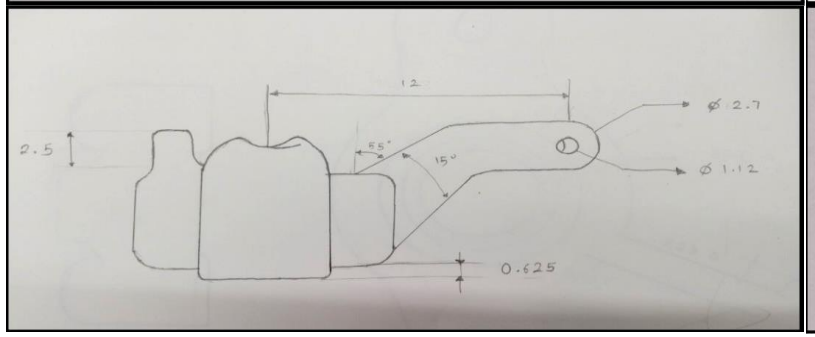
Parts were divided between members to analyze structure of each part and its interaction with other parts.

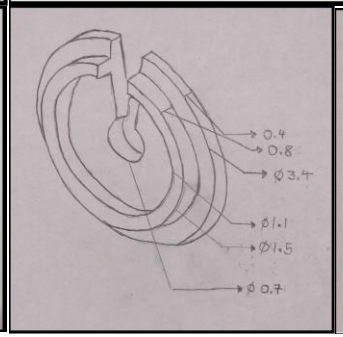
Corresponding images show some of the sketches and components.

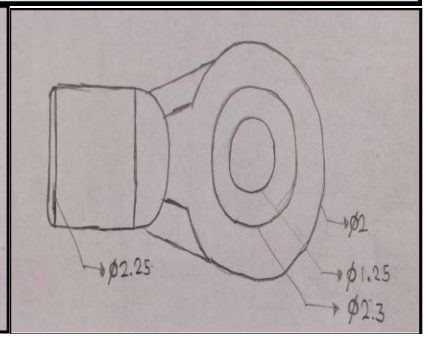
Process
Dimensioning









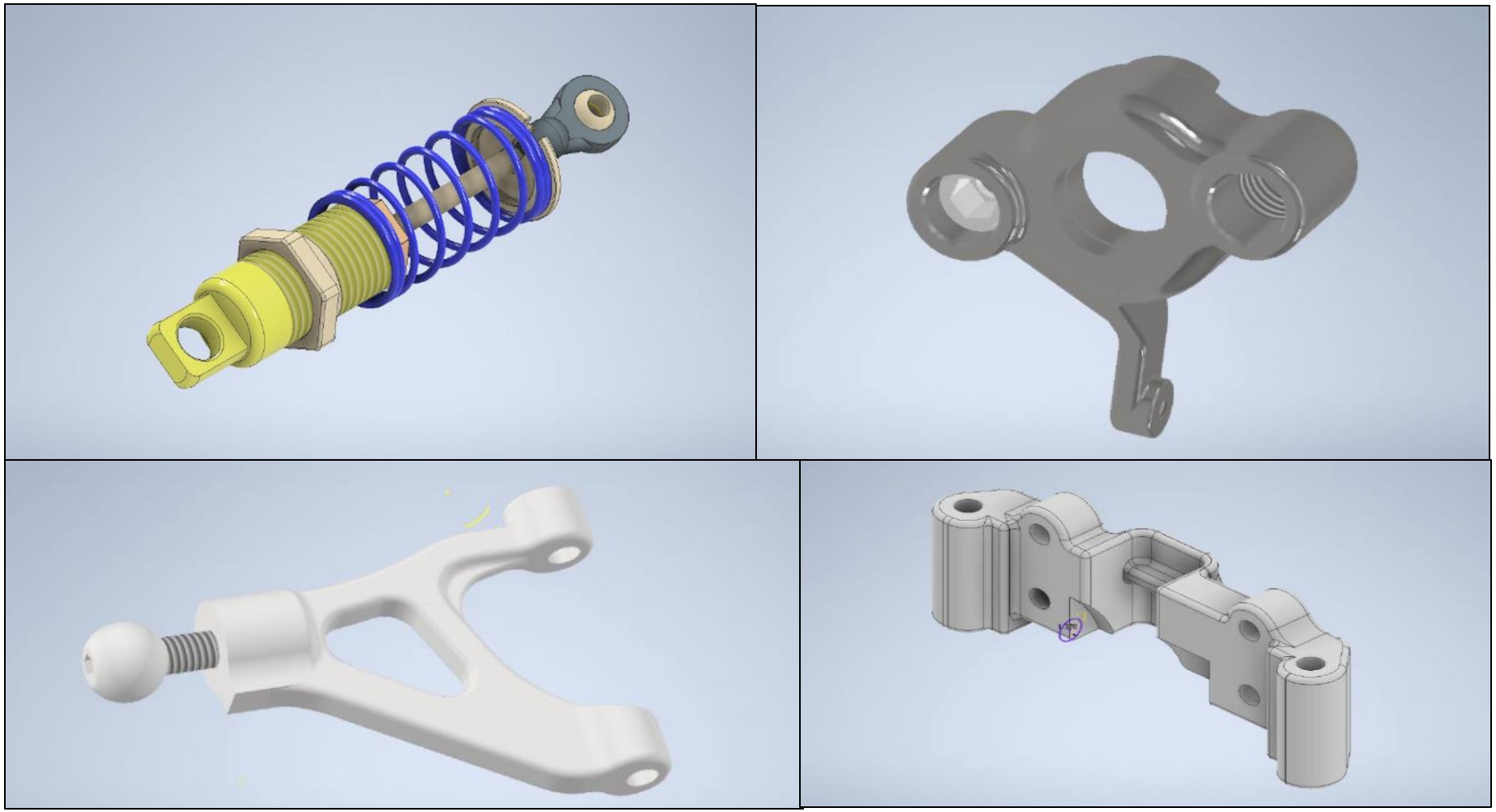


Each part was dimensioned in order to ensure proper assembly.

Corresponding figure contains some of the dimensioned components.

Process

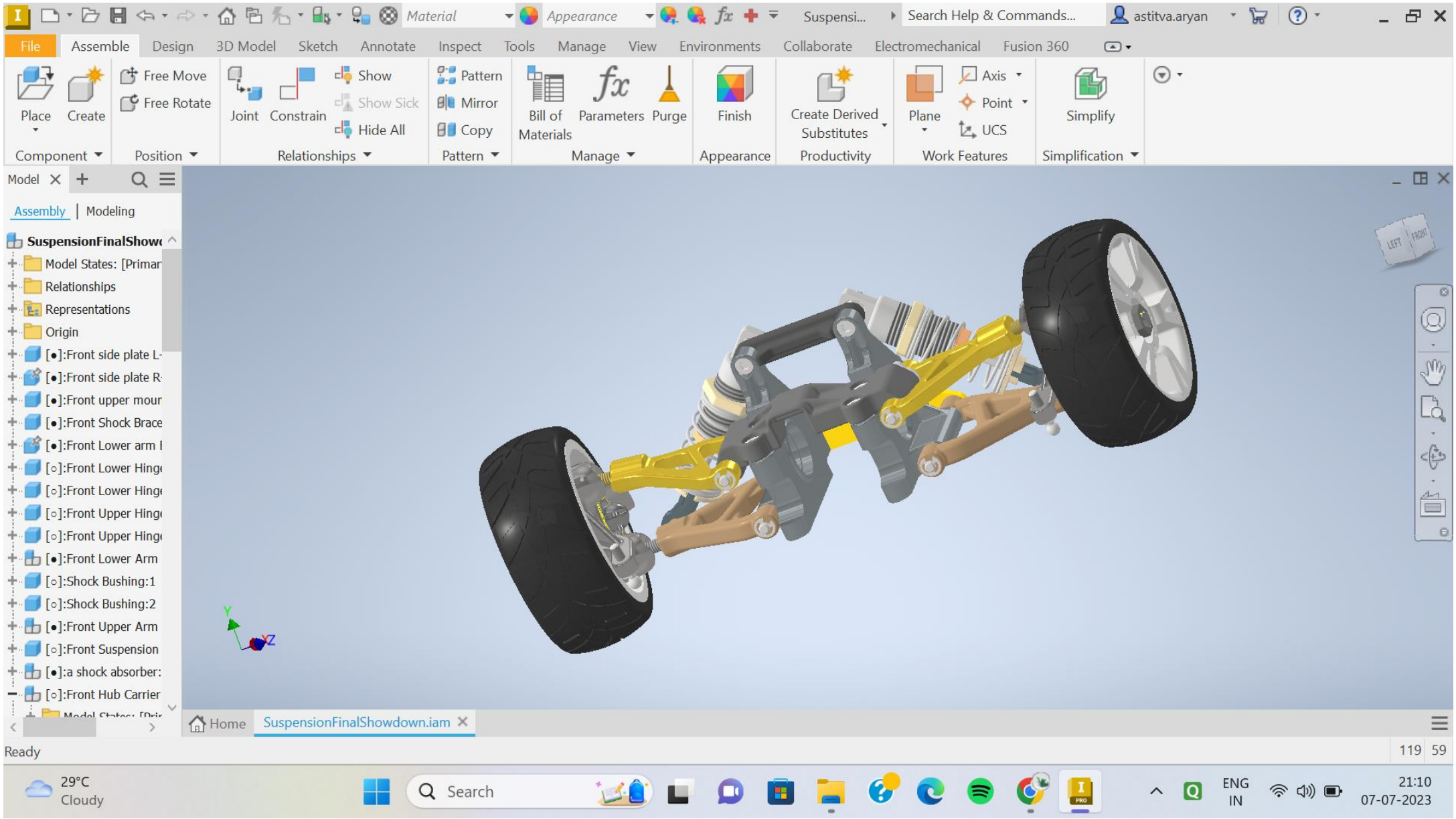
Modelling And Assembly



Corresponding image contains some of the 3D CAD models.

Challenges

- Breaking down the whole system into smaller parts.
- Dimensioning to ensure perfect assembly.
- Exploration of new function to achieve desired features.
- Redesign of components in case of mistake.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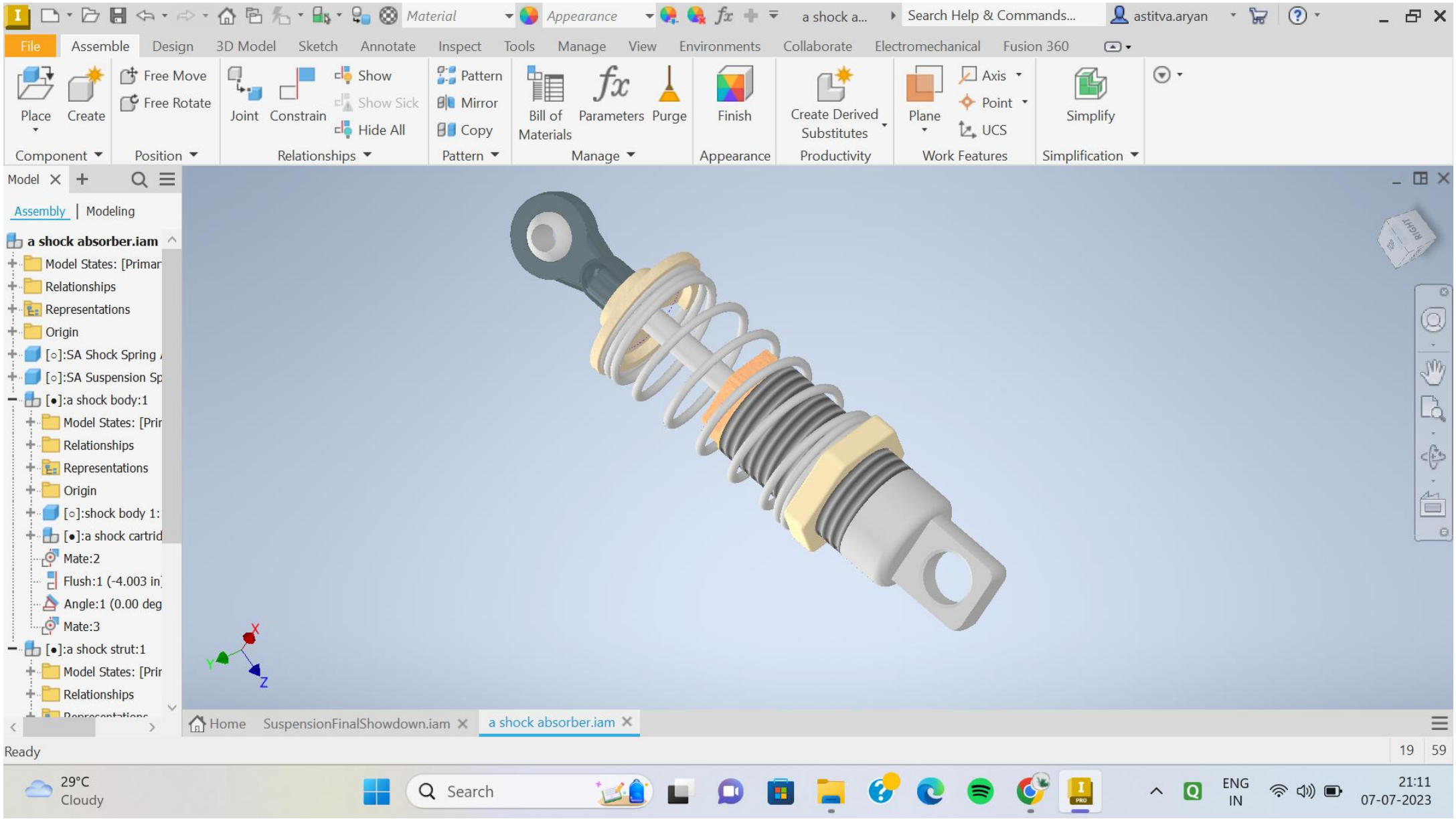
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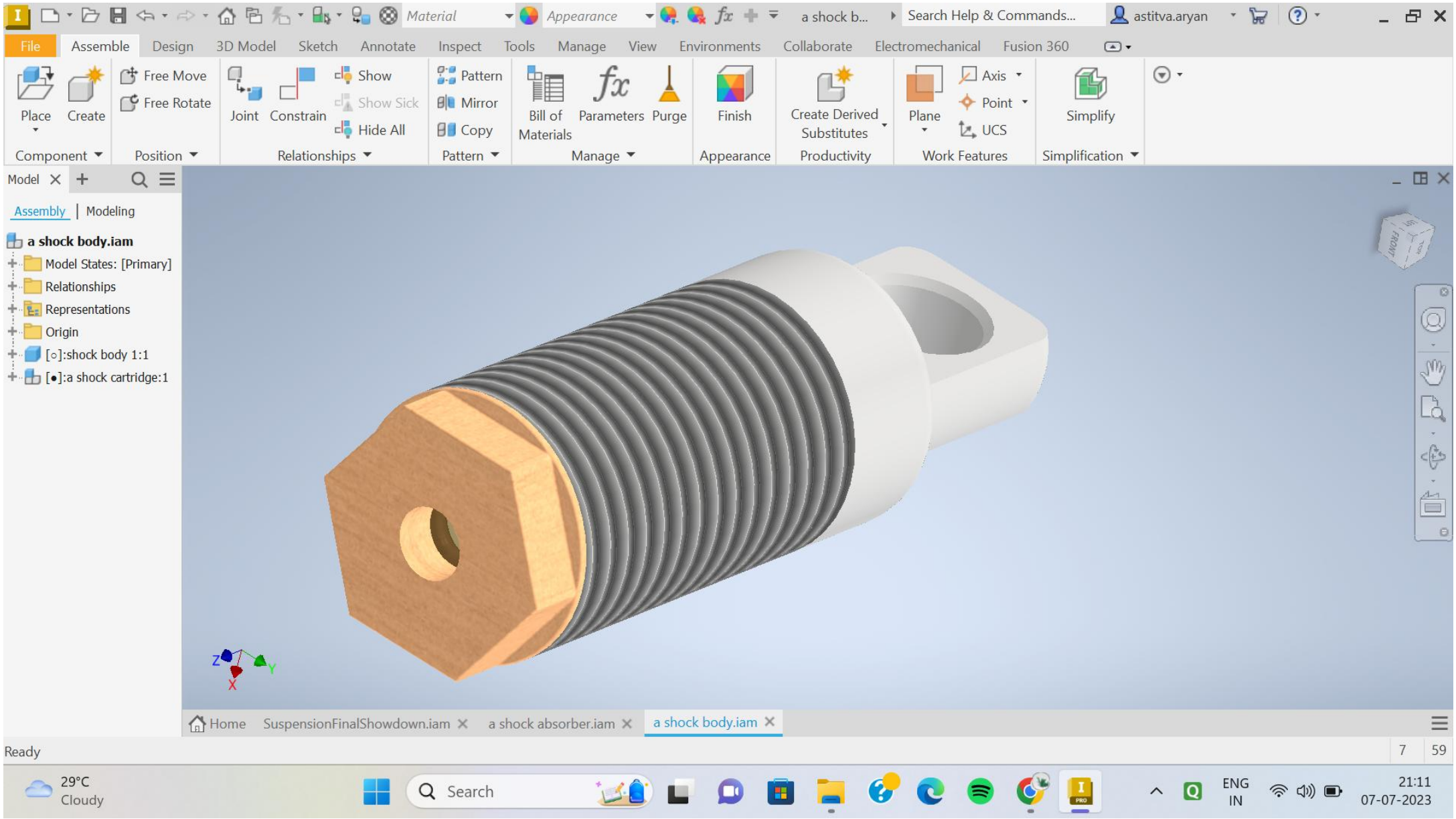
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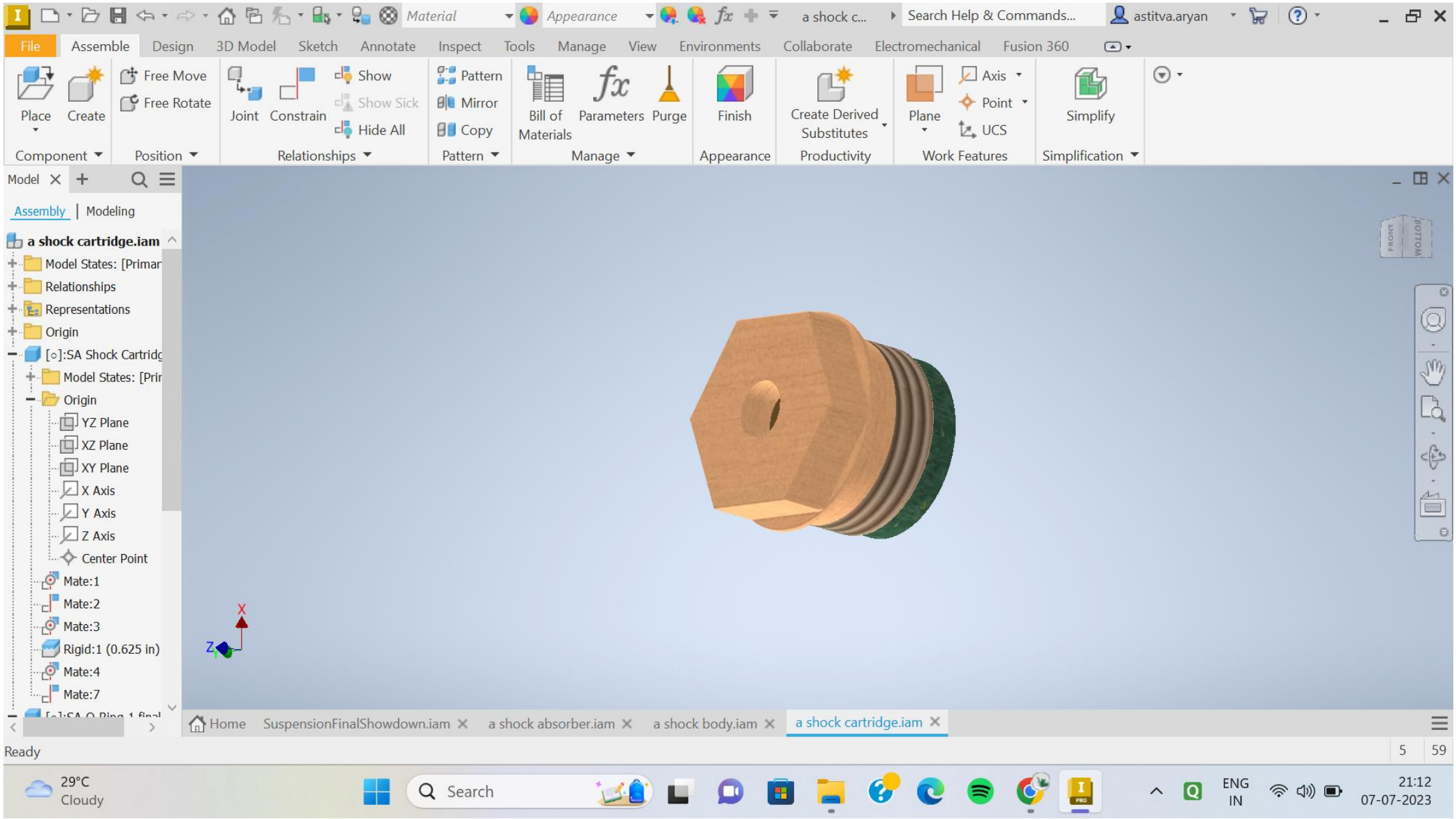
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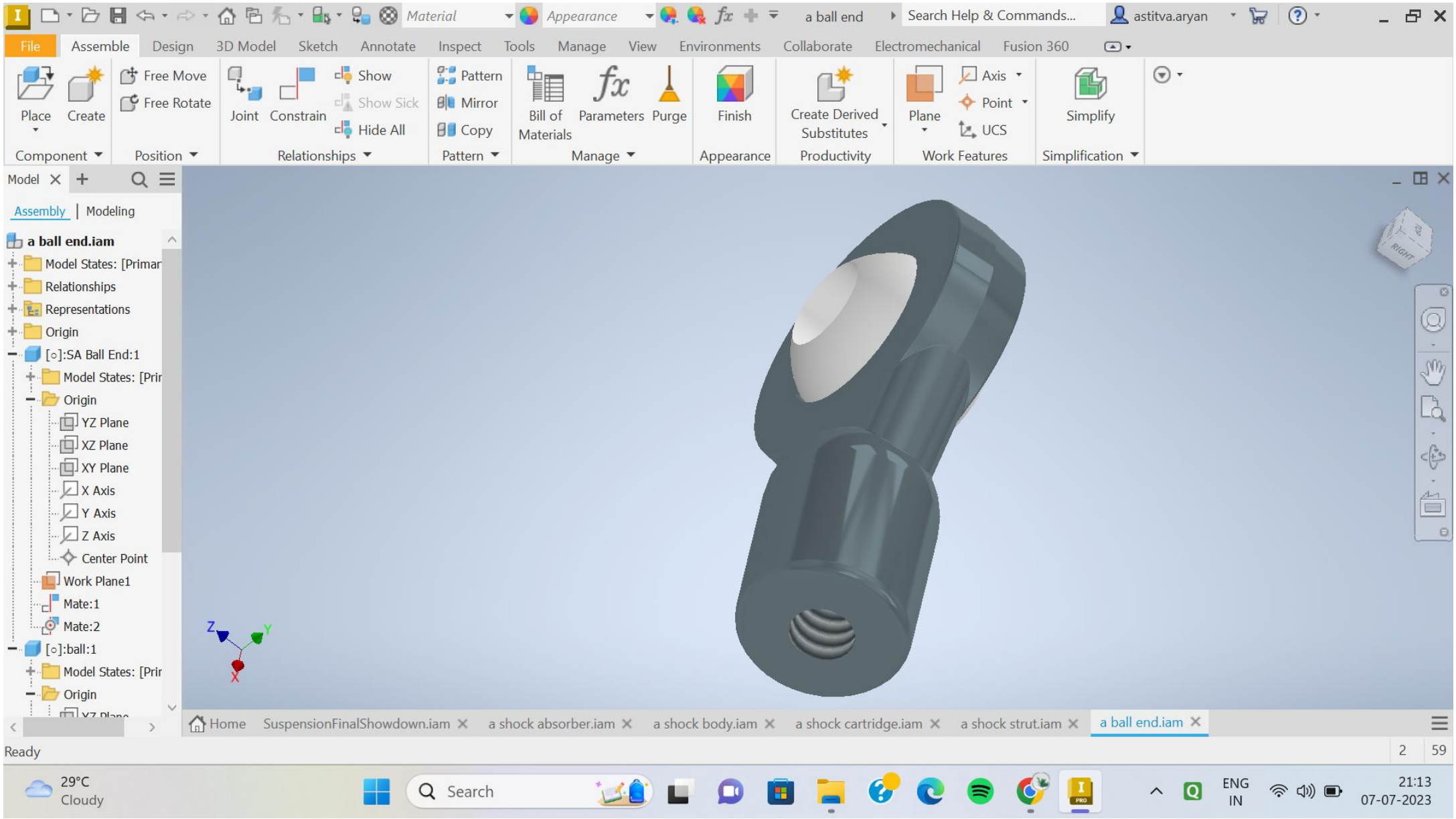
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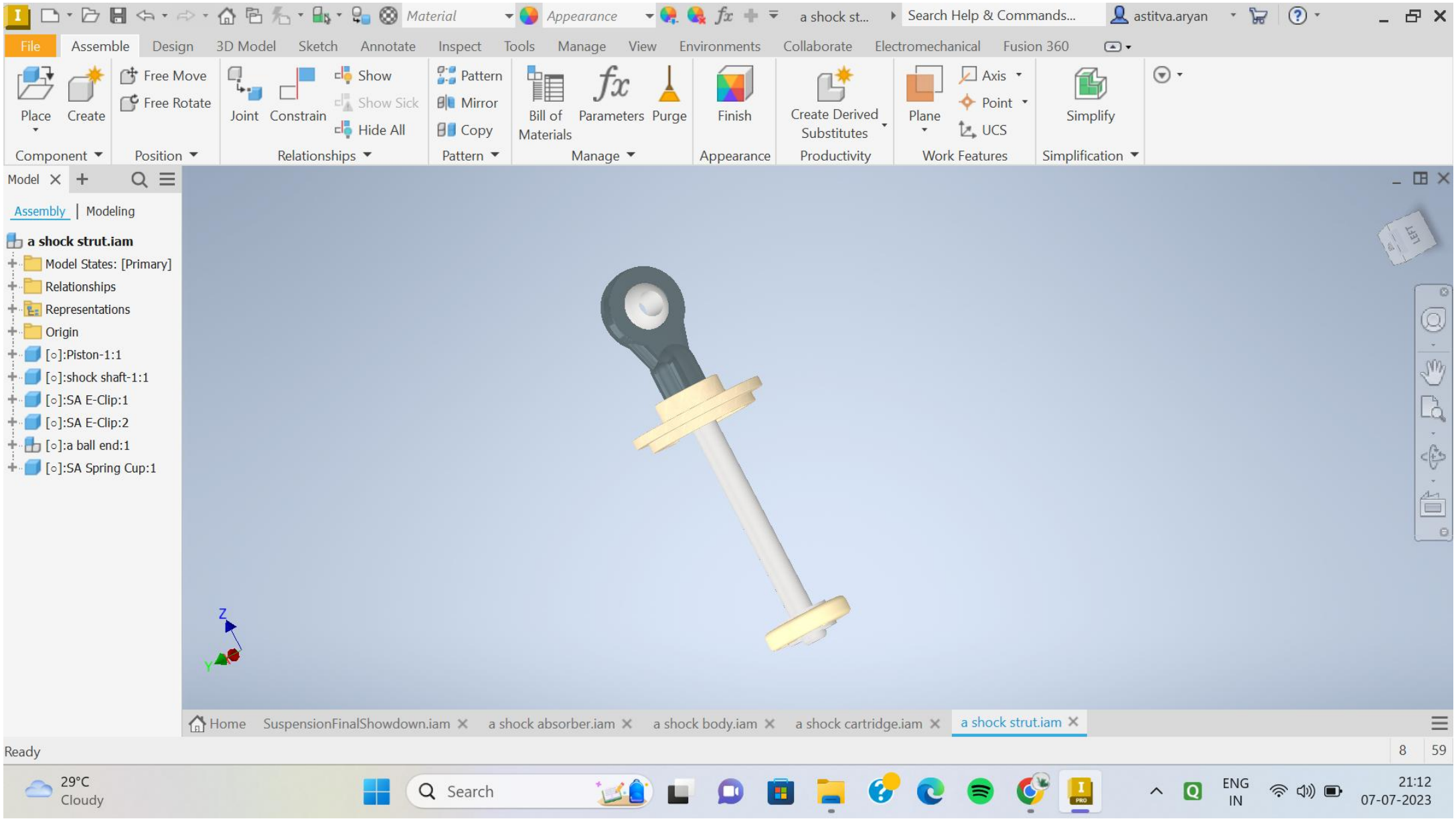
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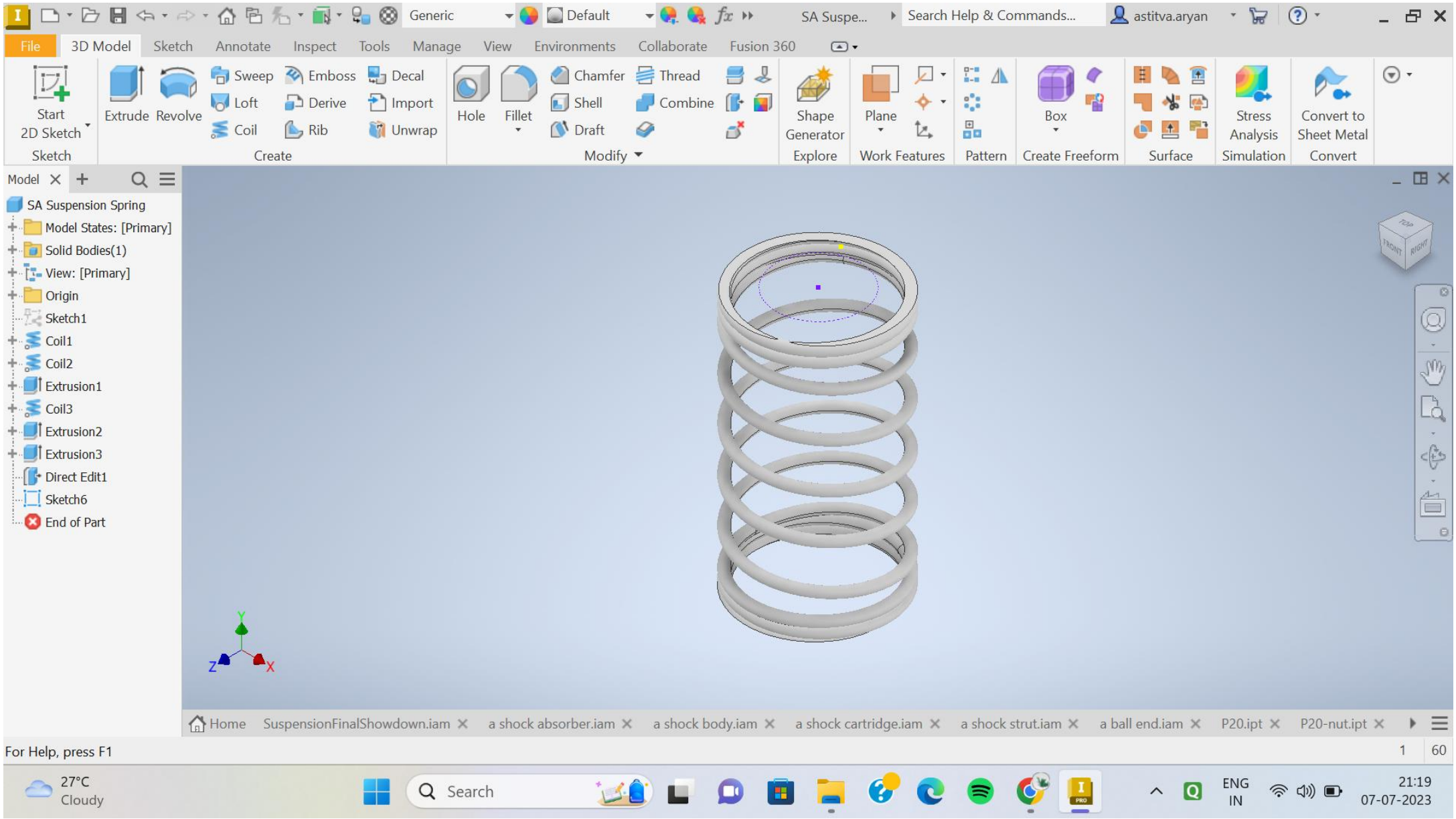
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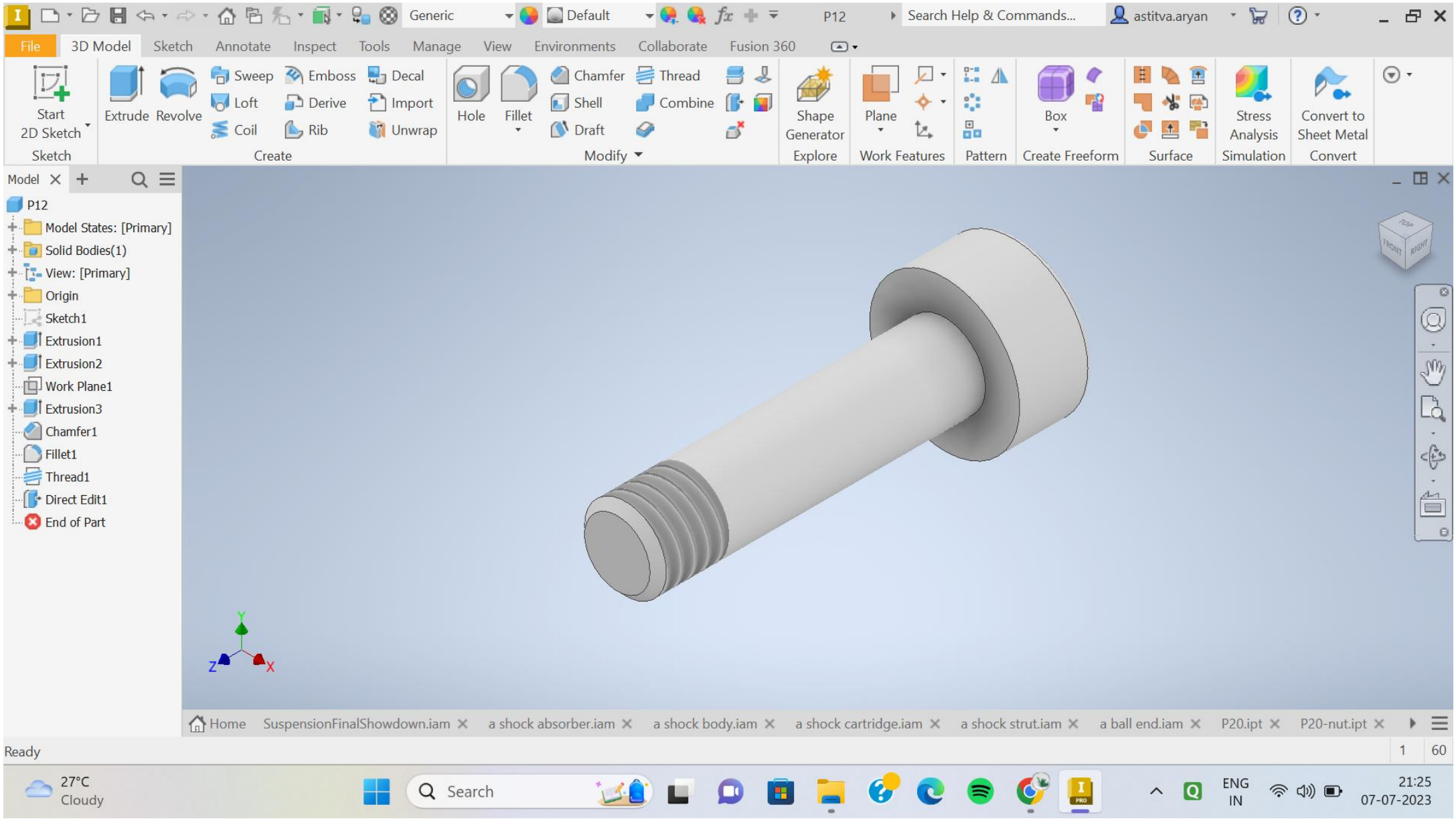
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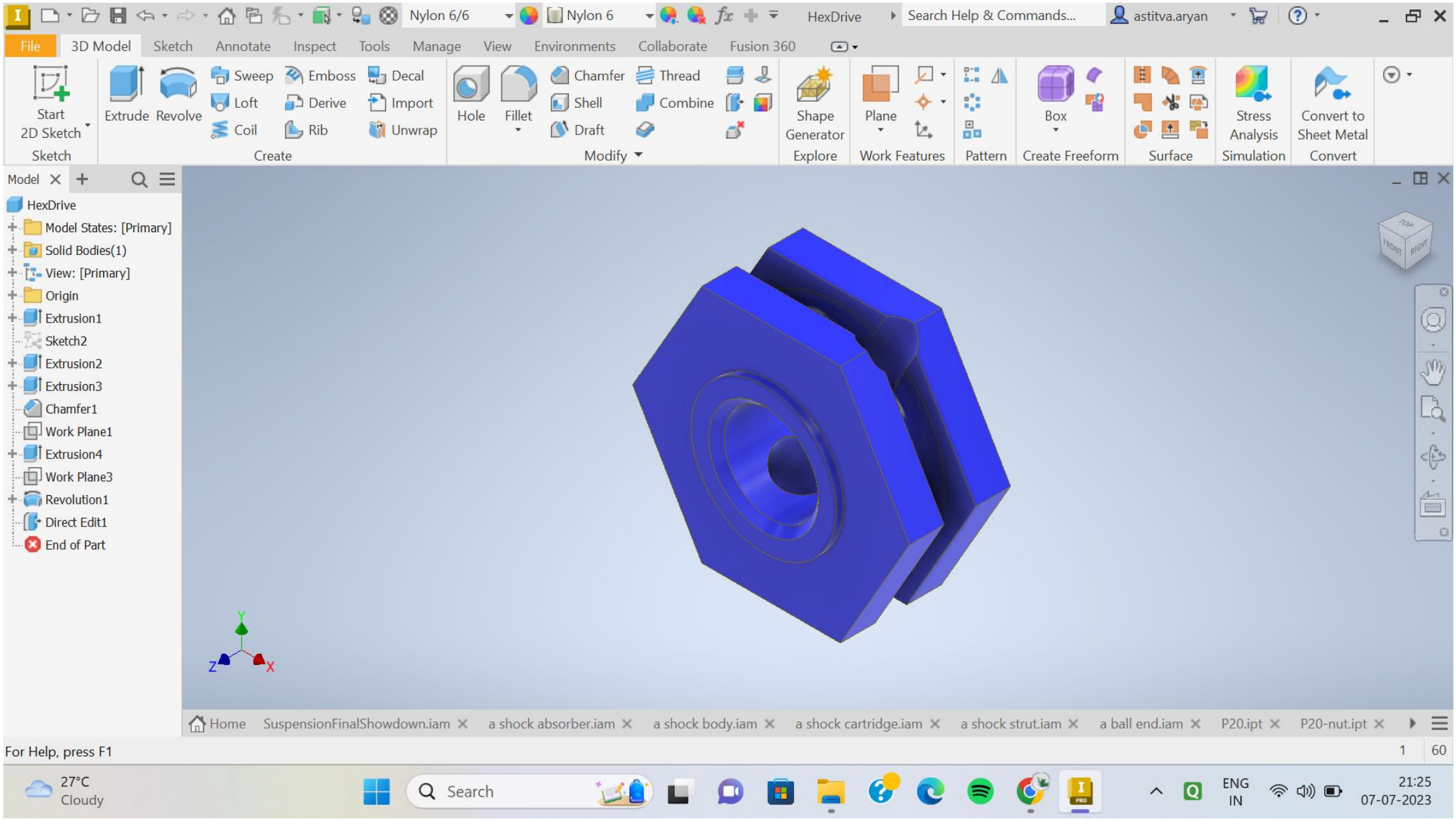
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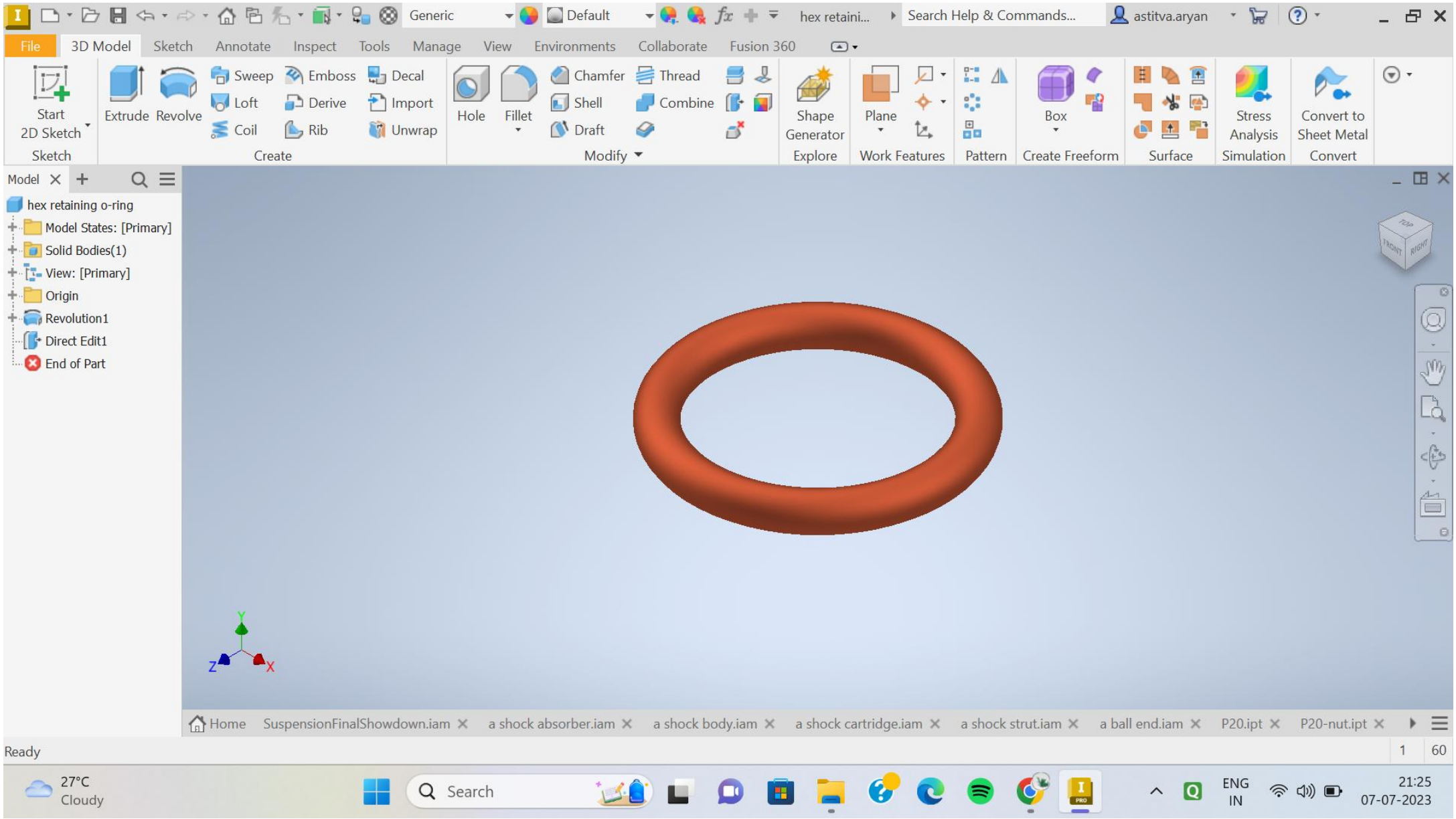
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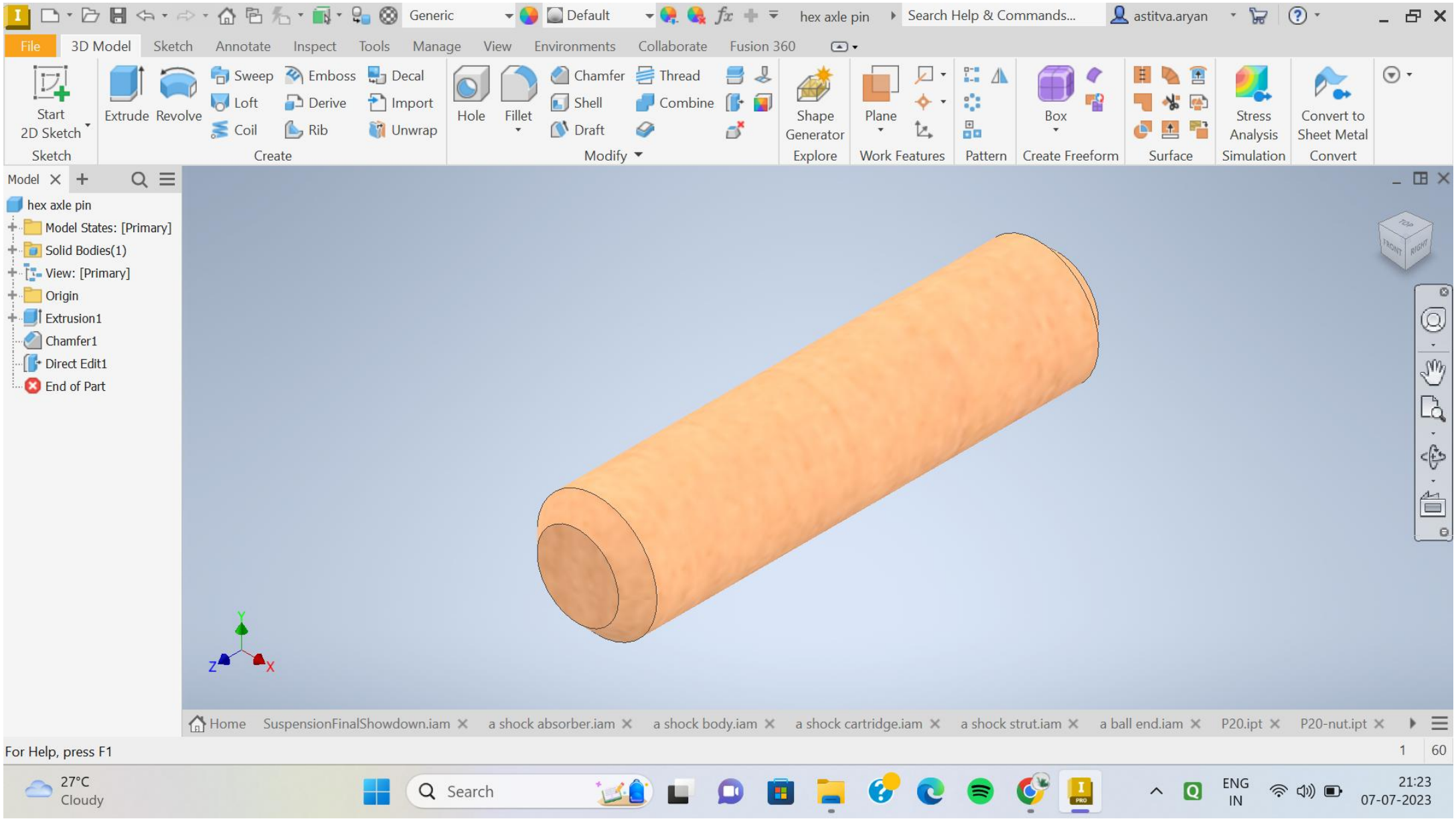
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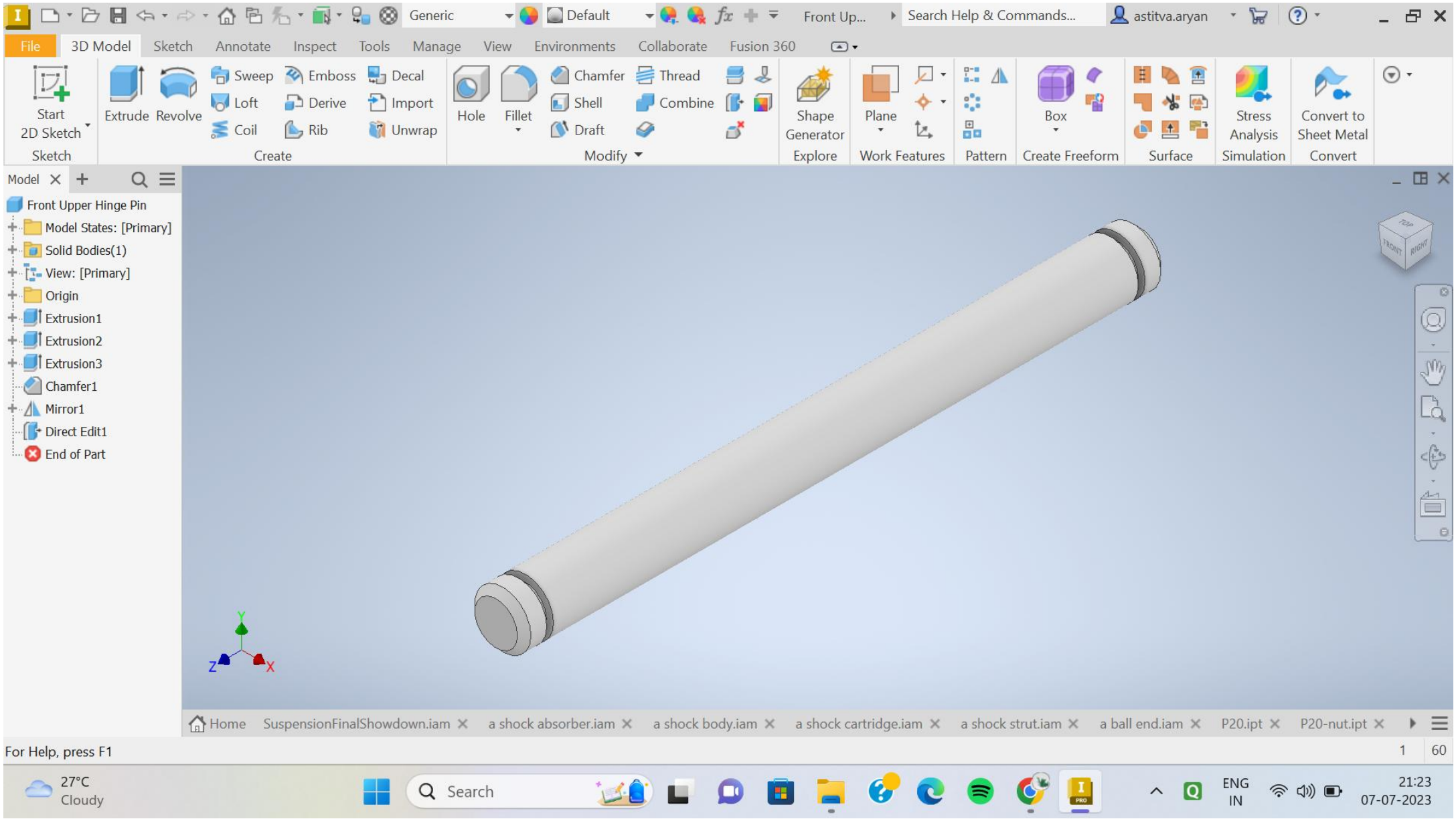
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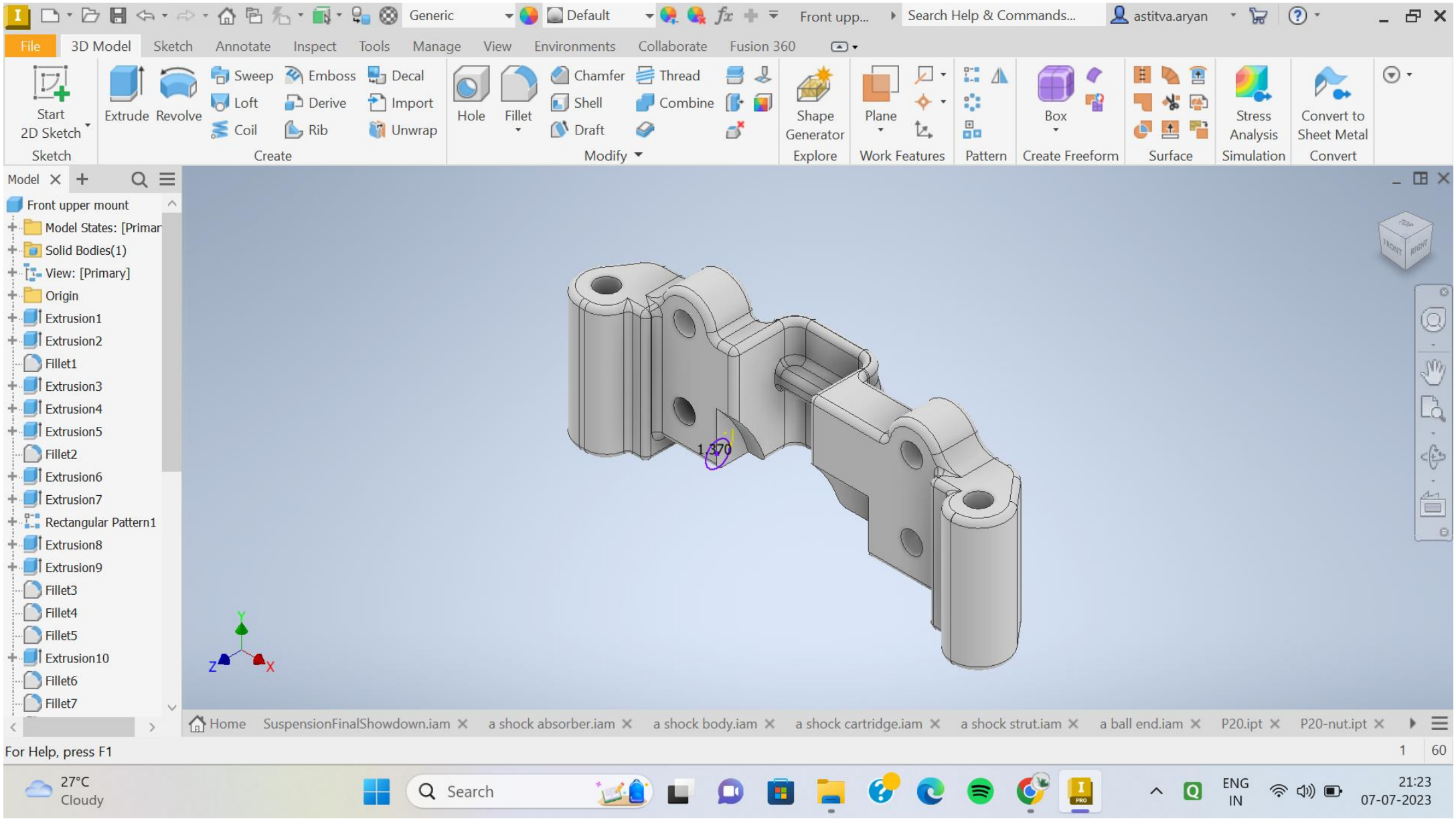
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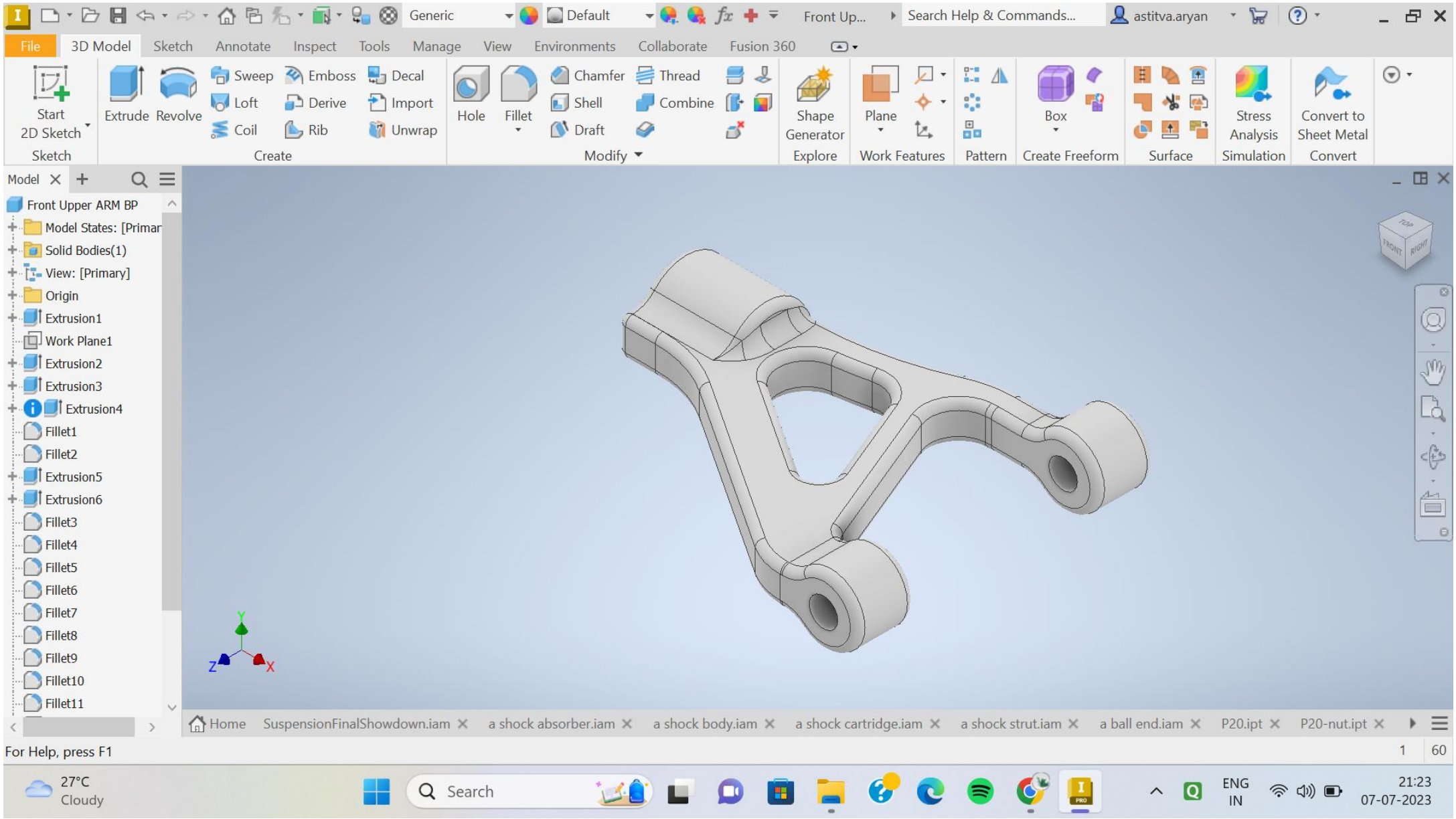
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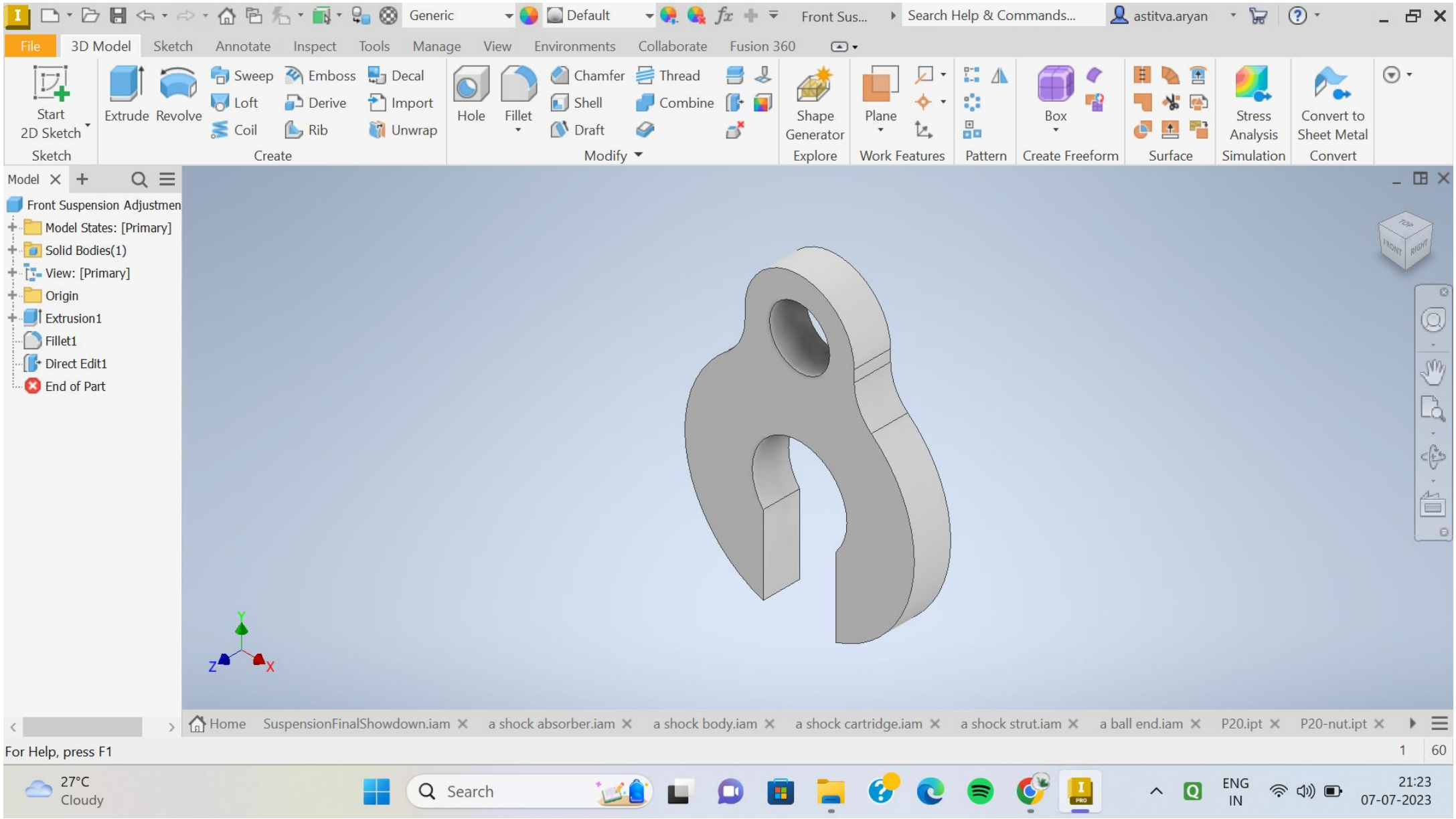
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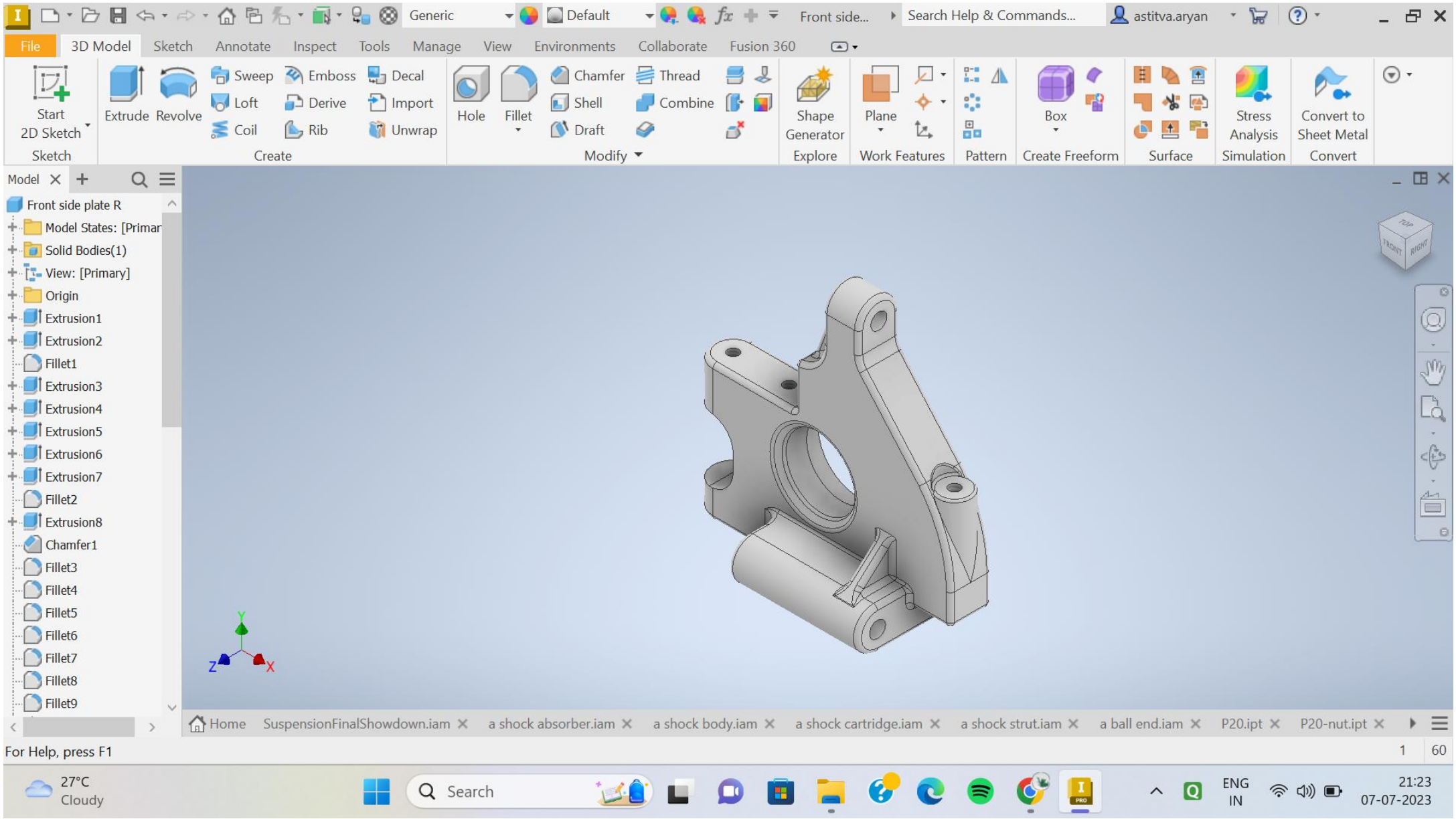
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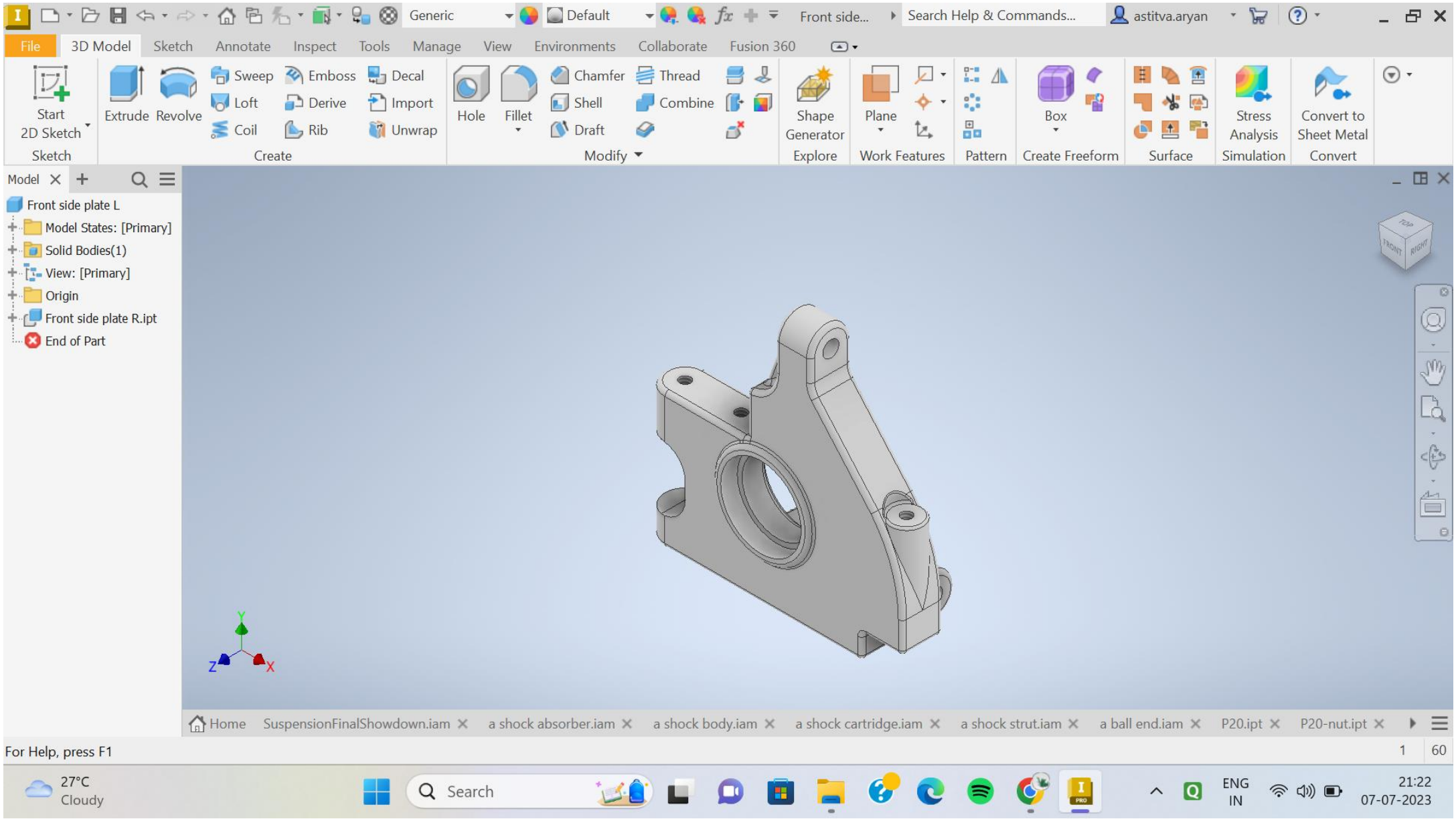
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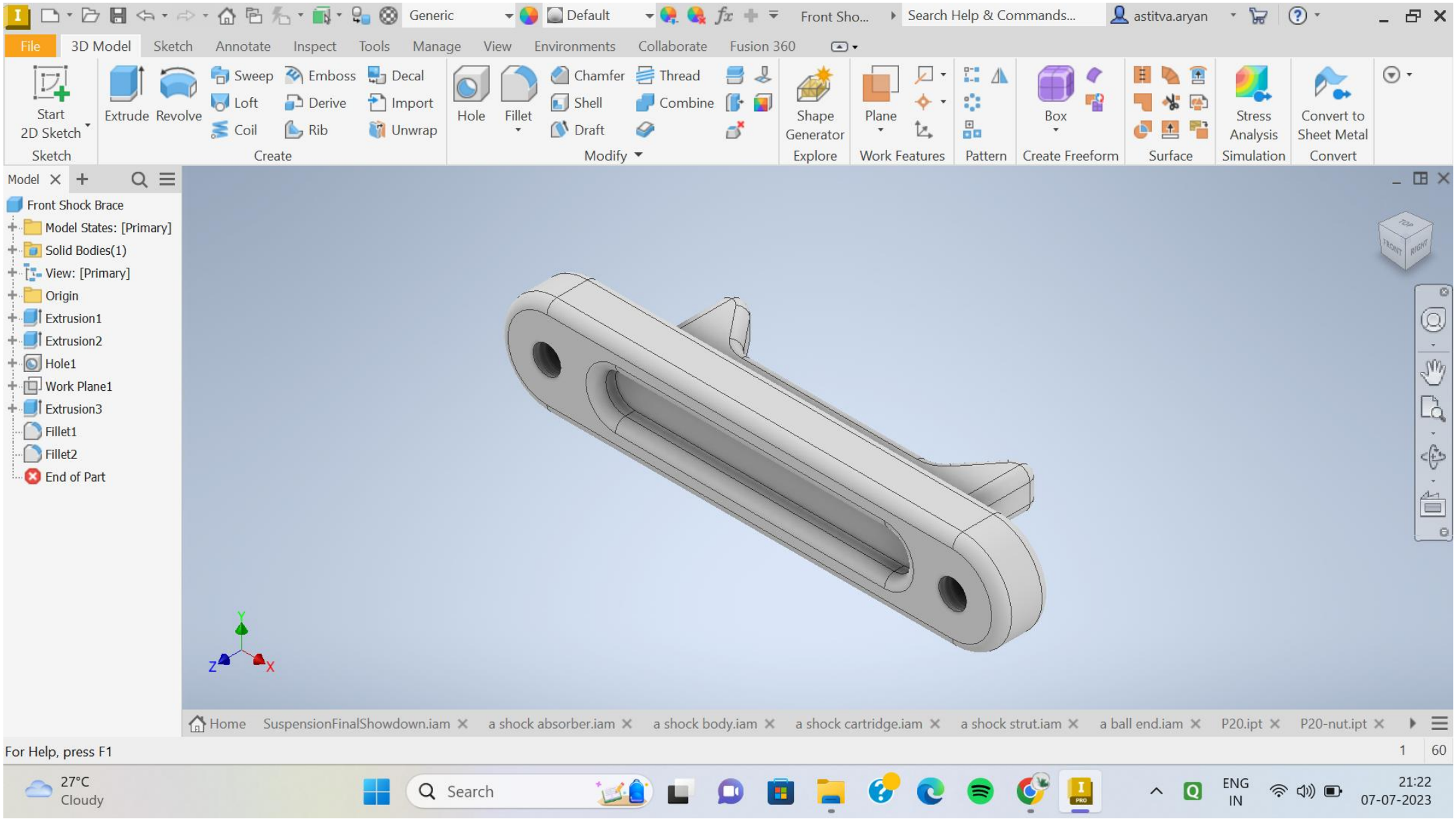
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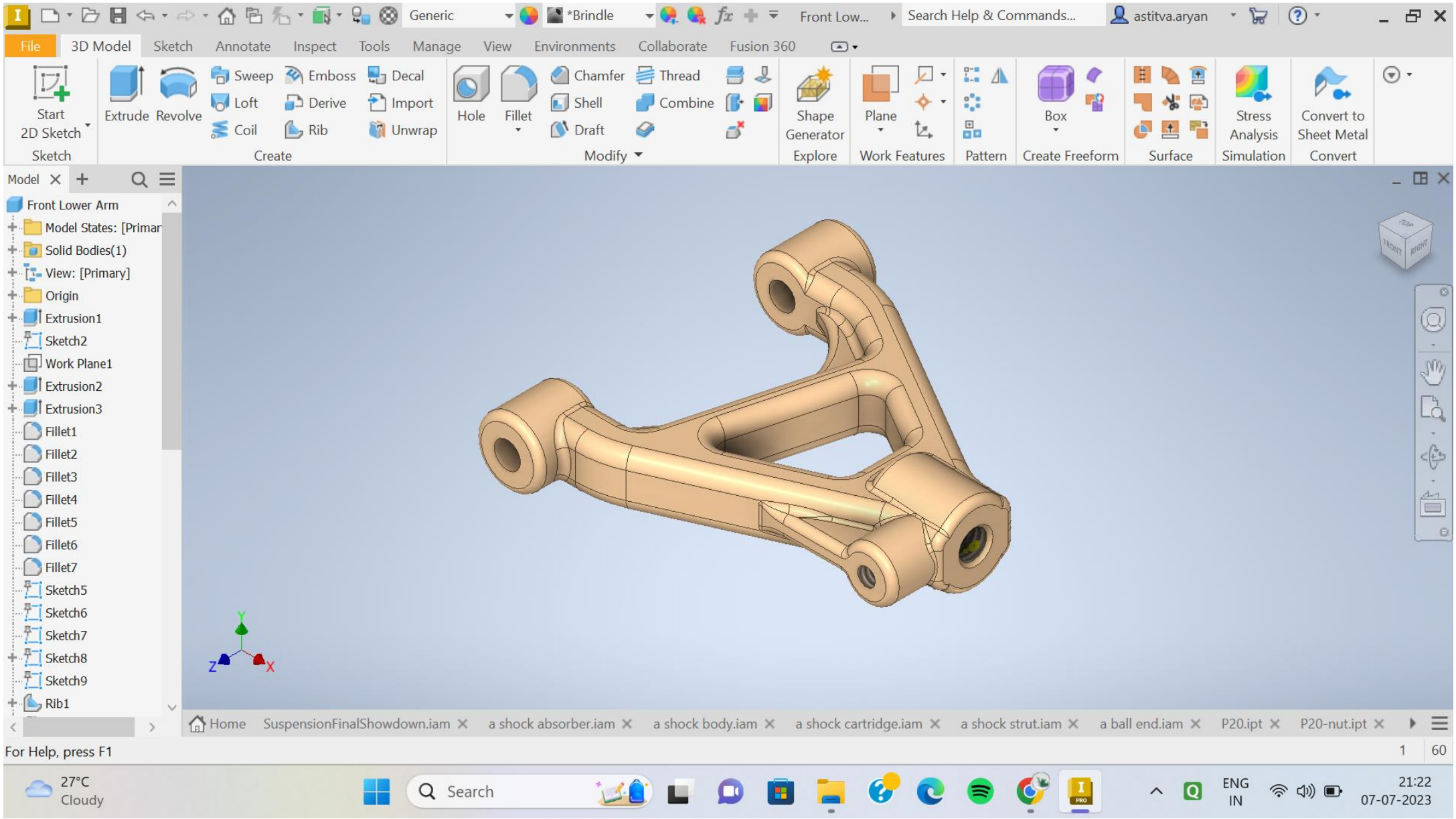
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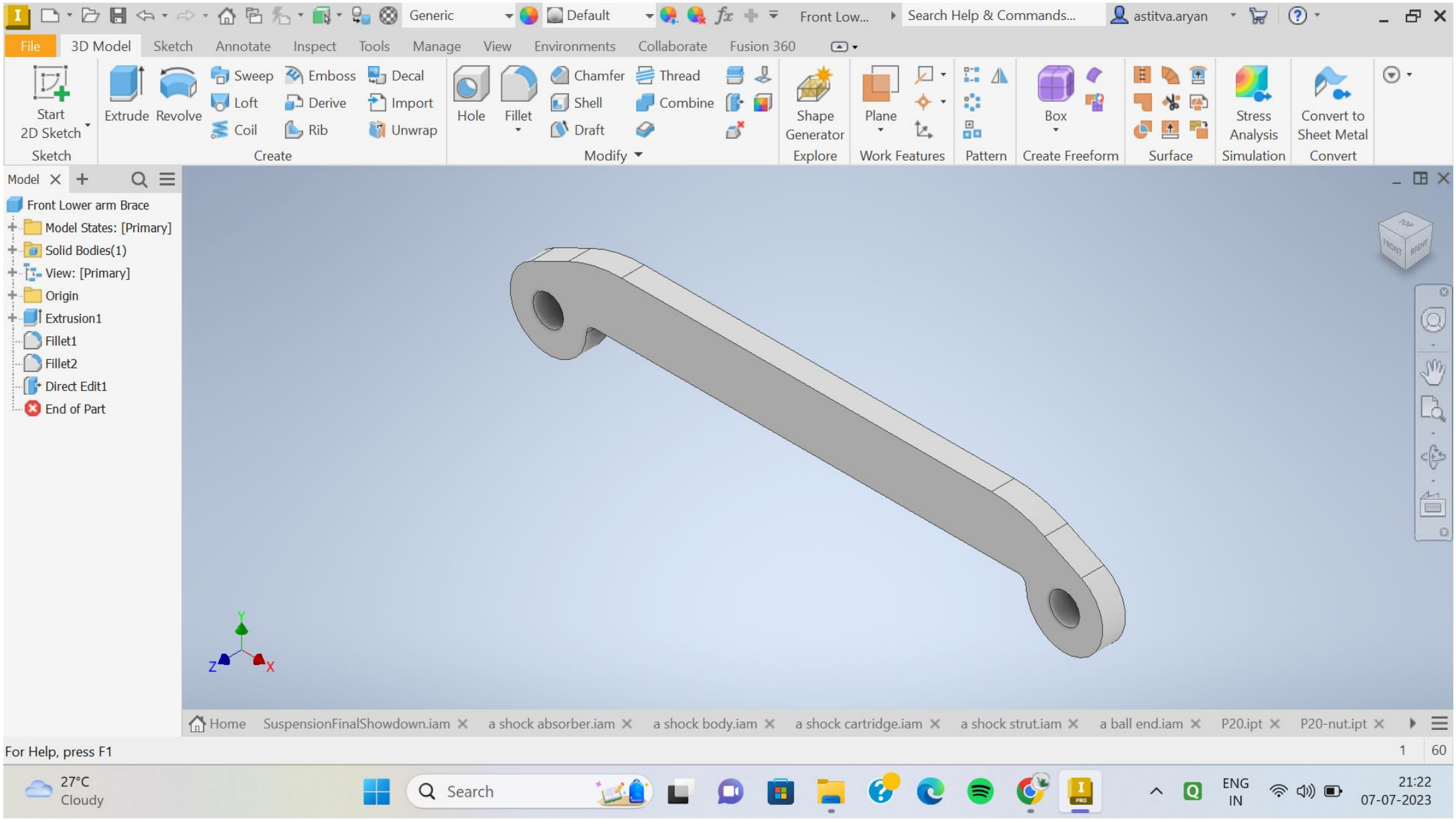
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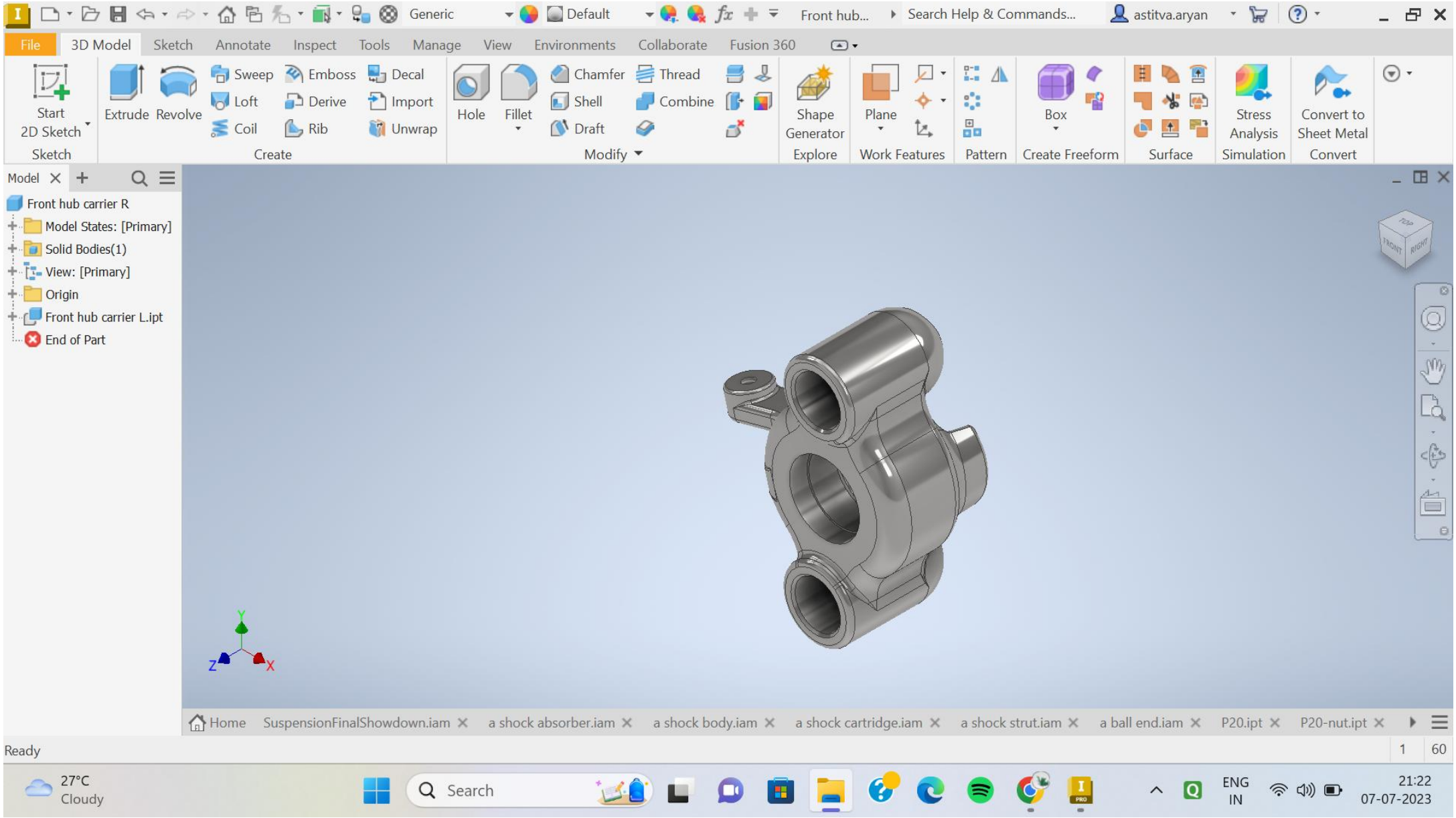
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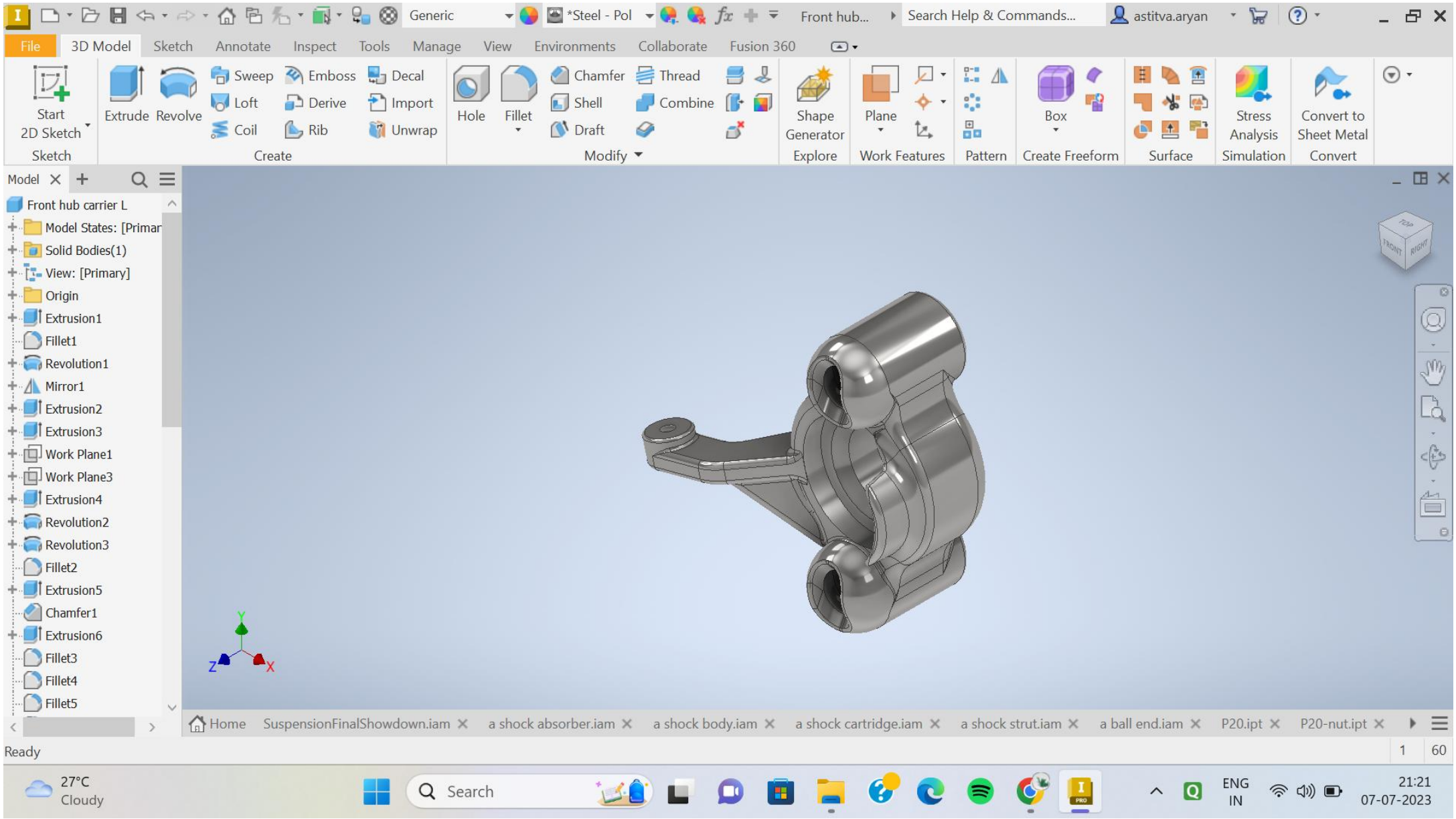
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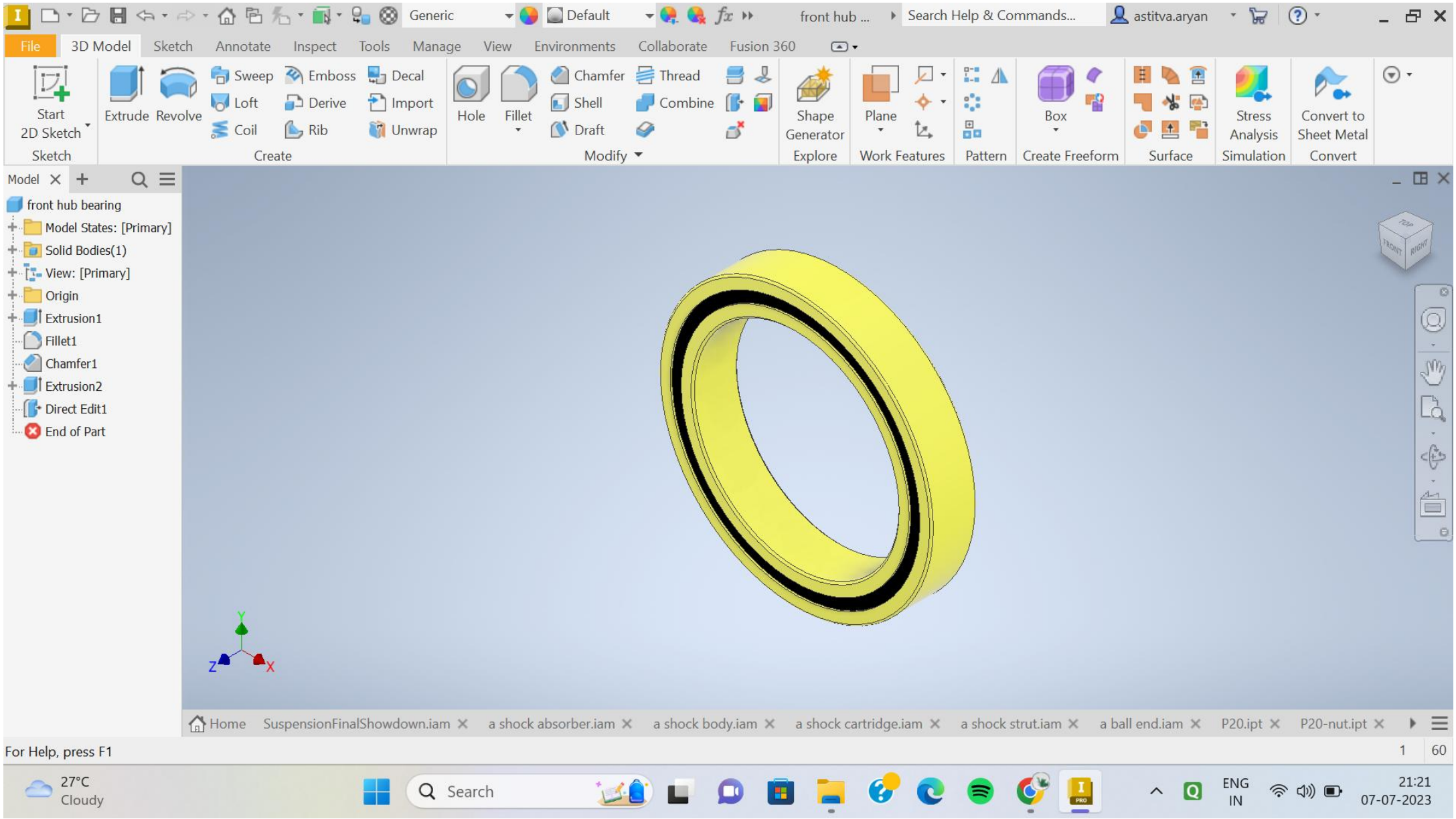
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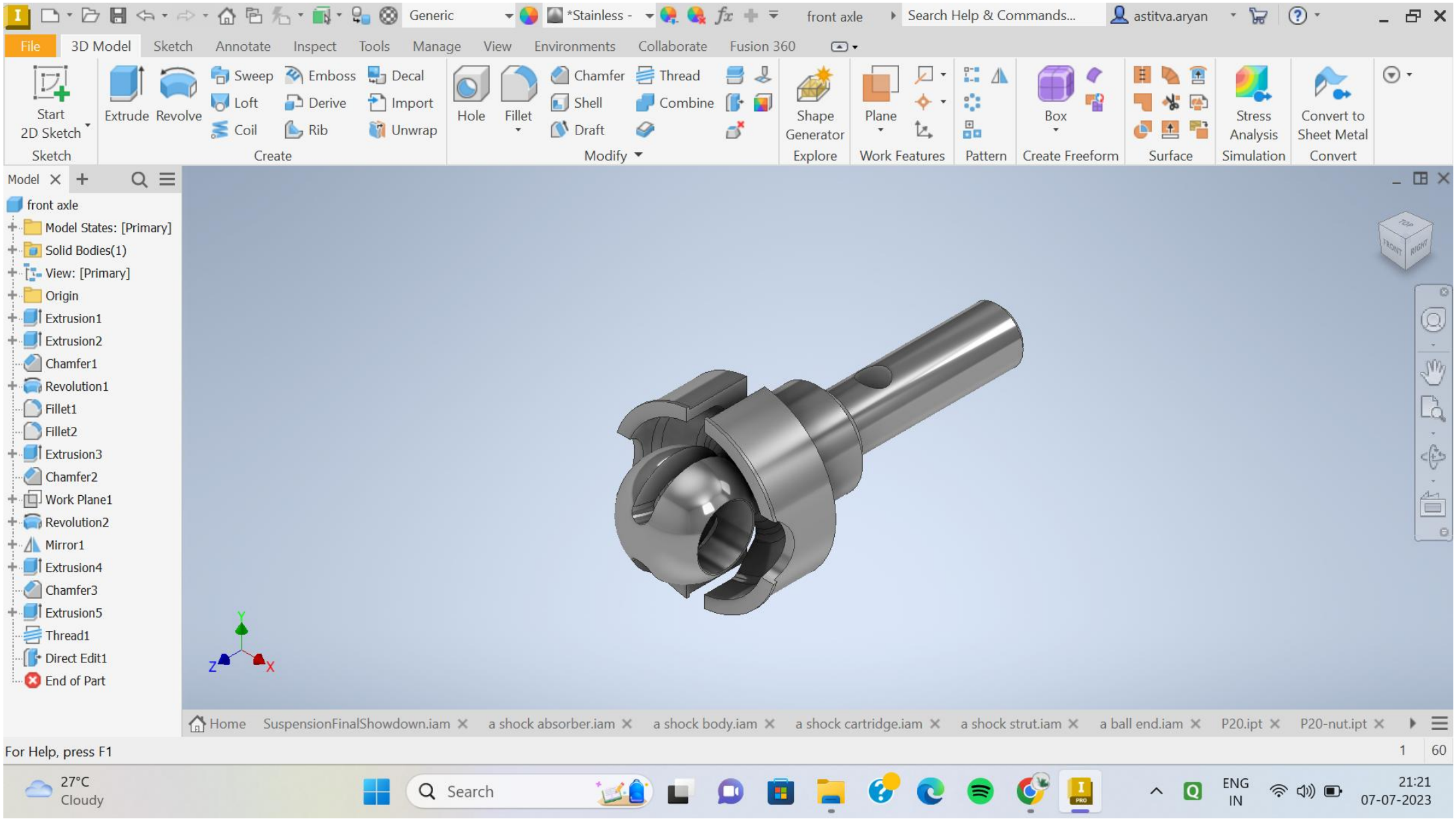
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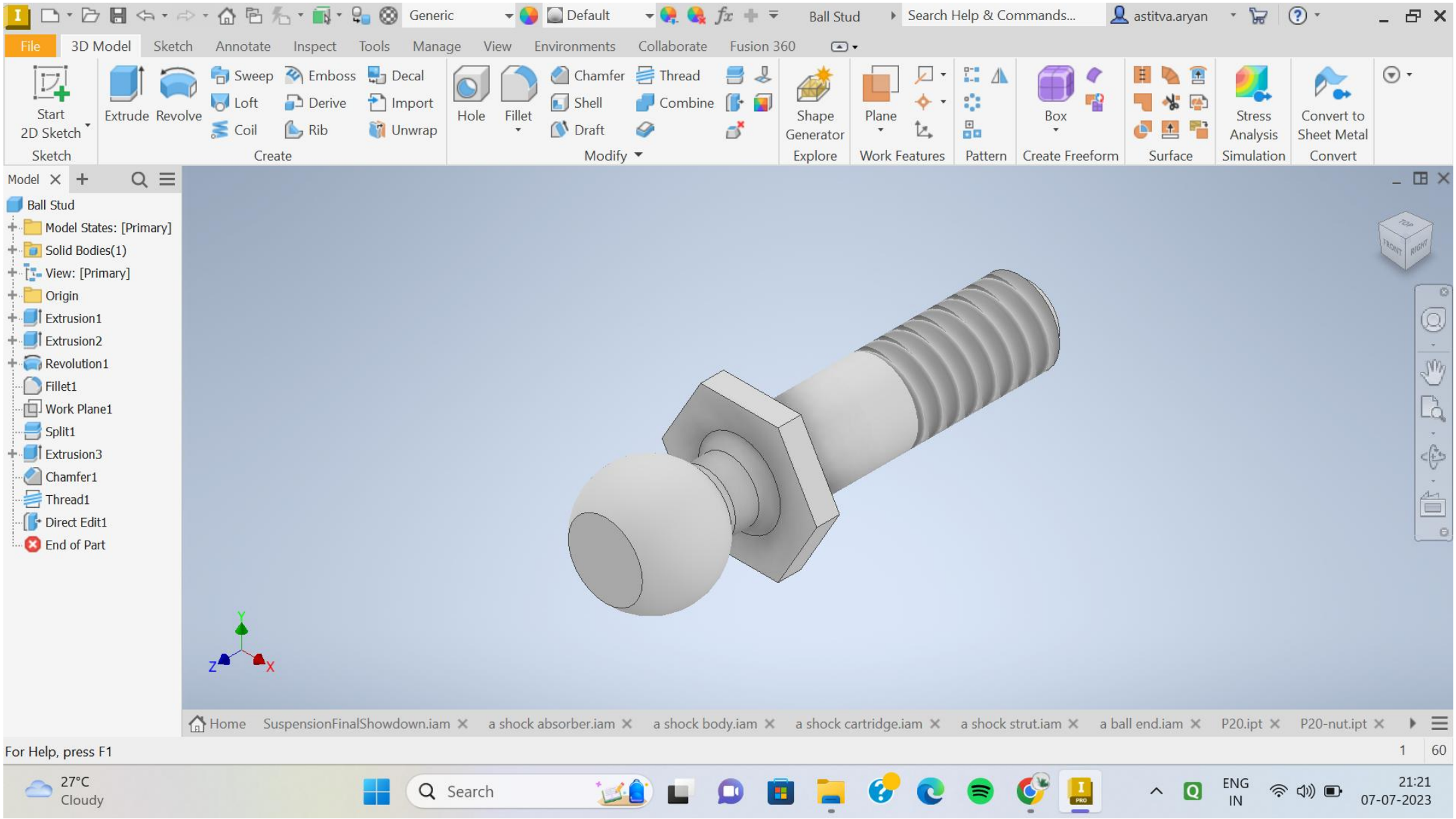
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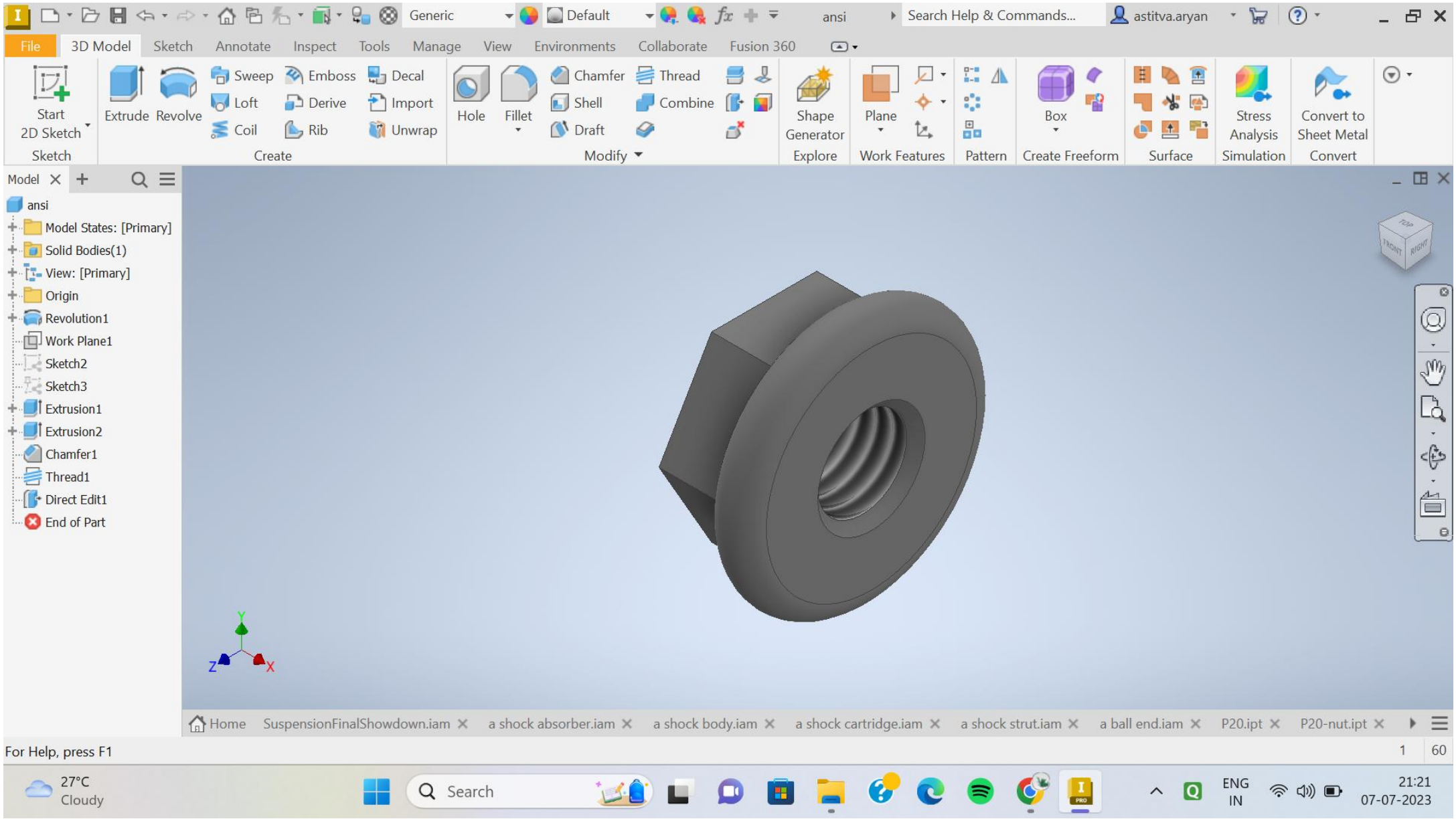
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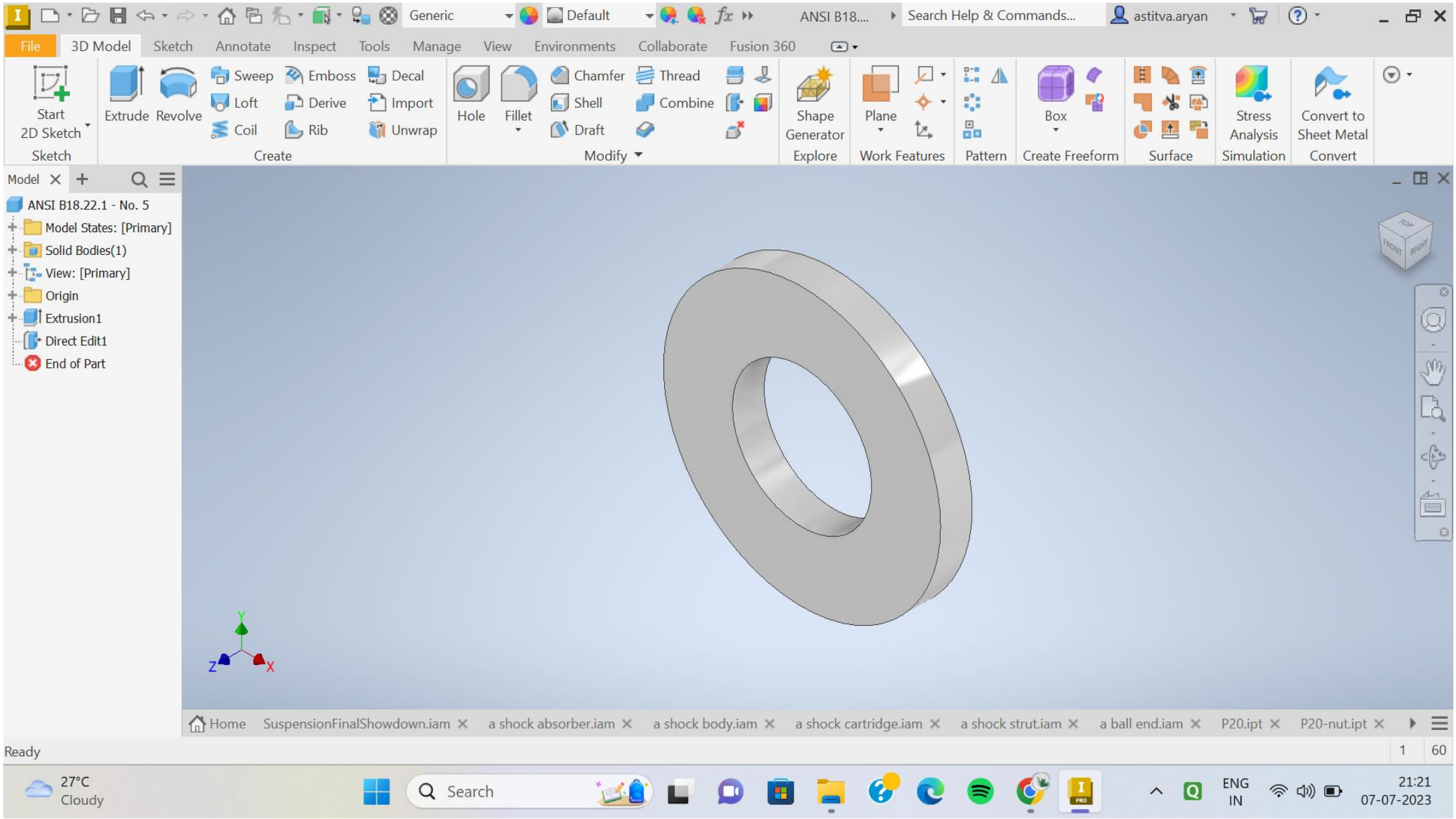
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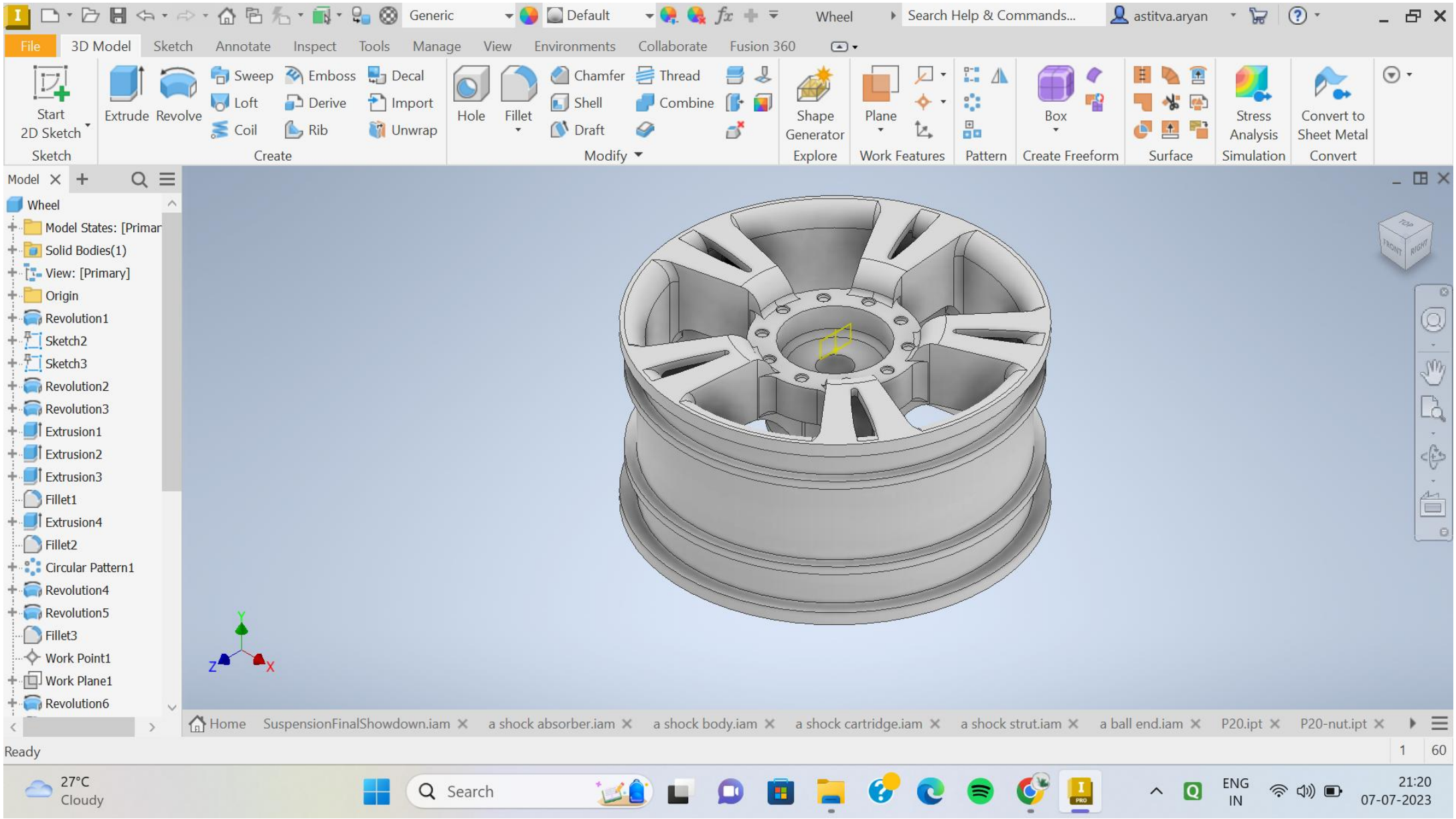
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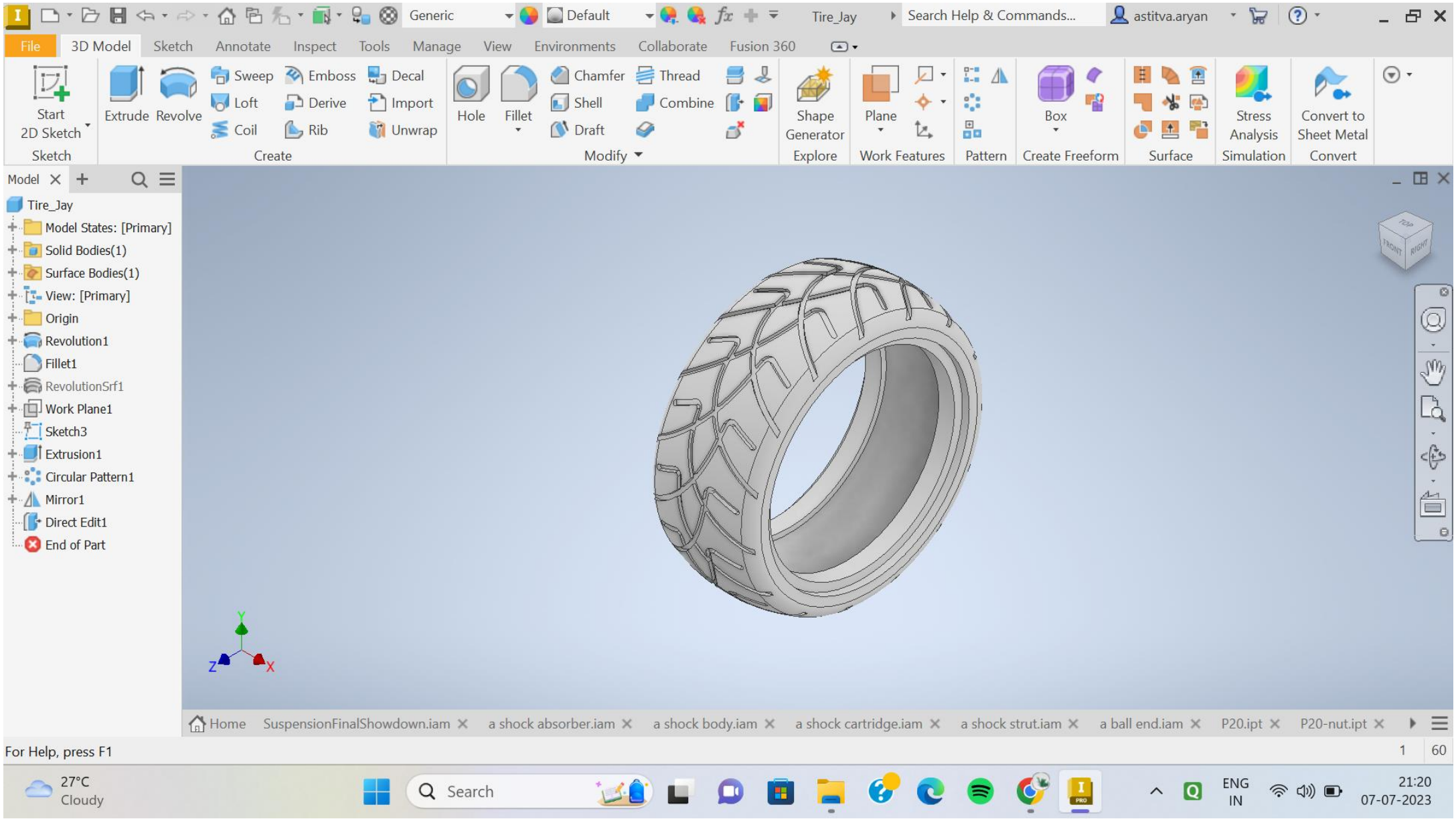
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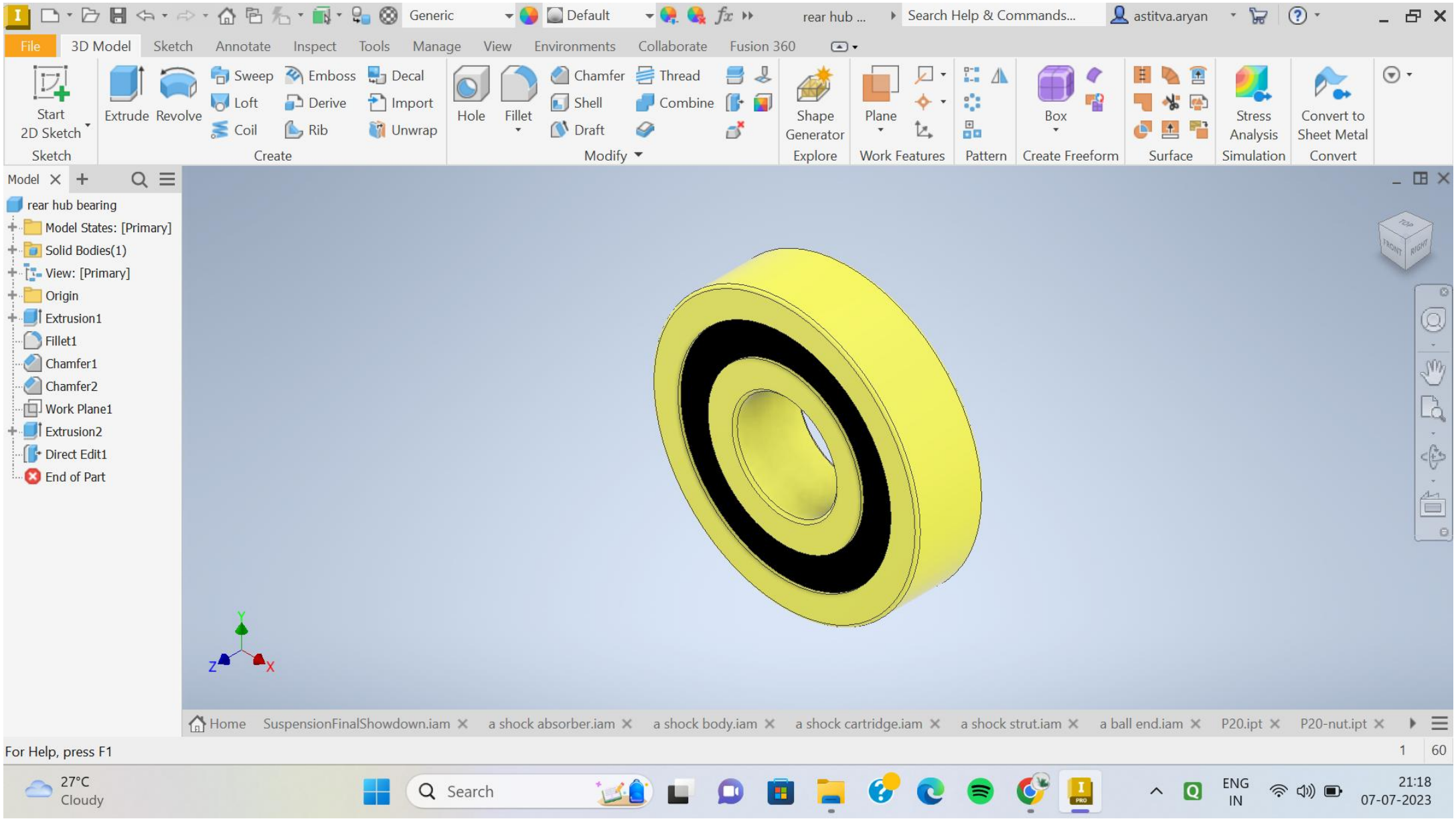
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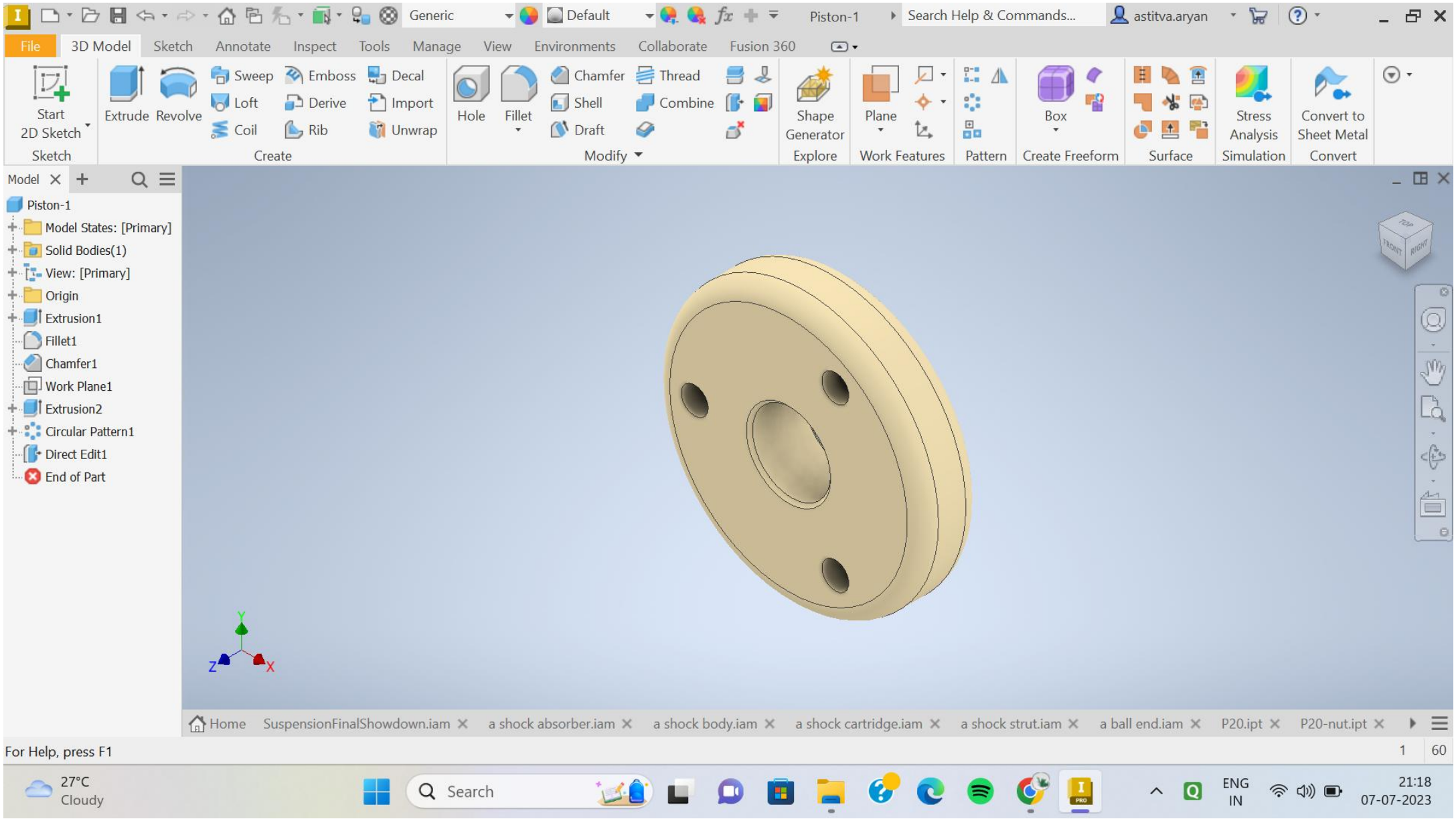
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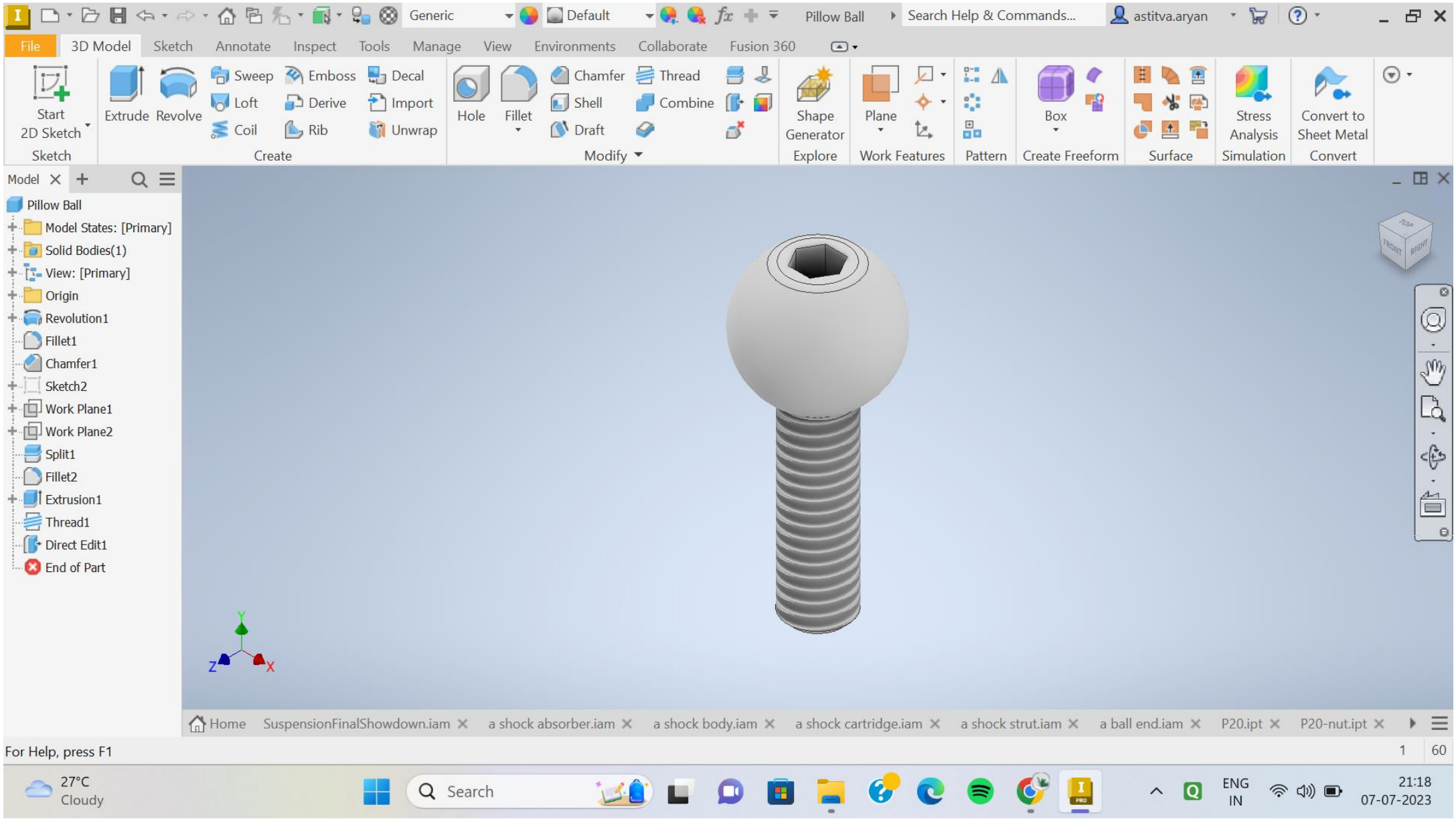
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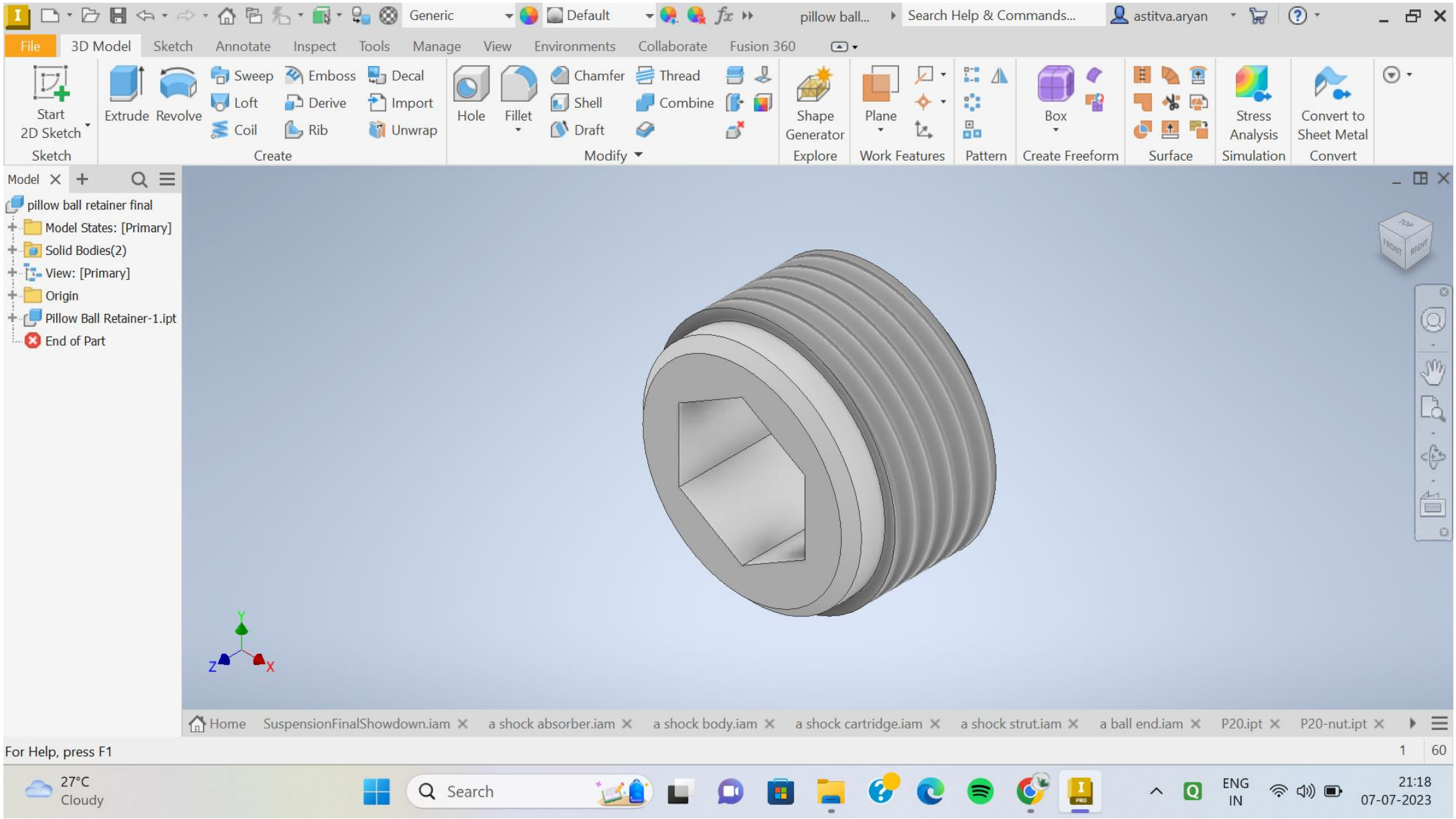
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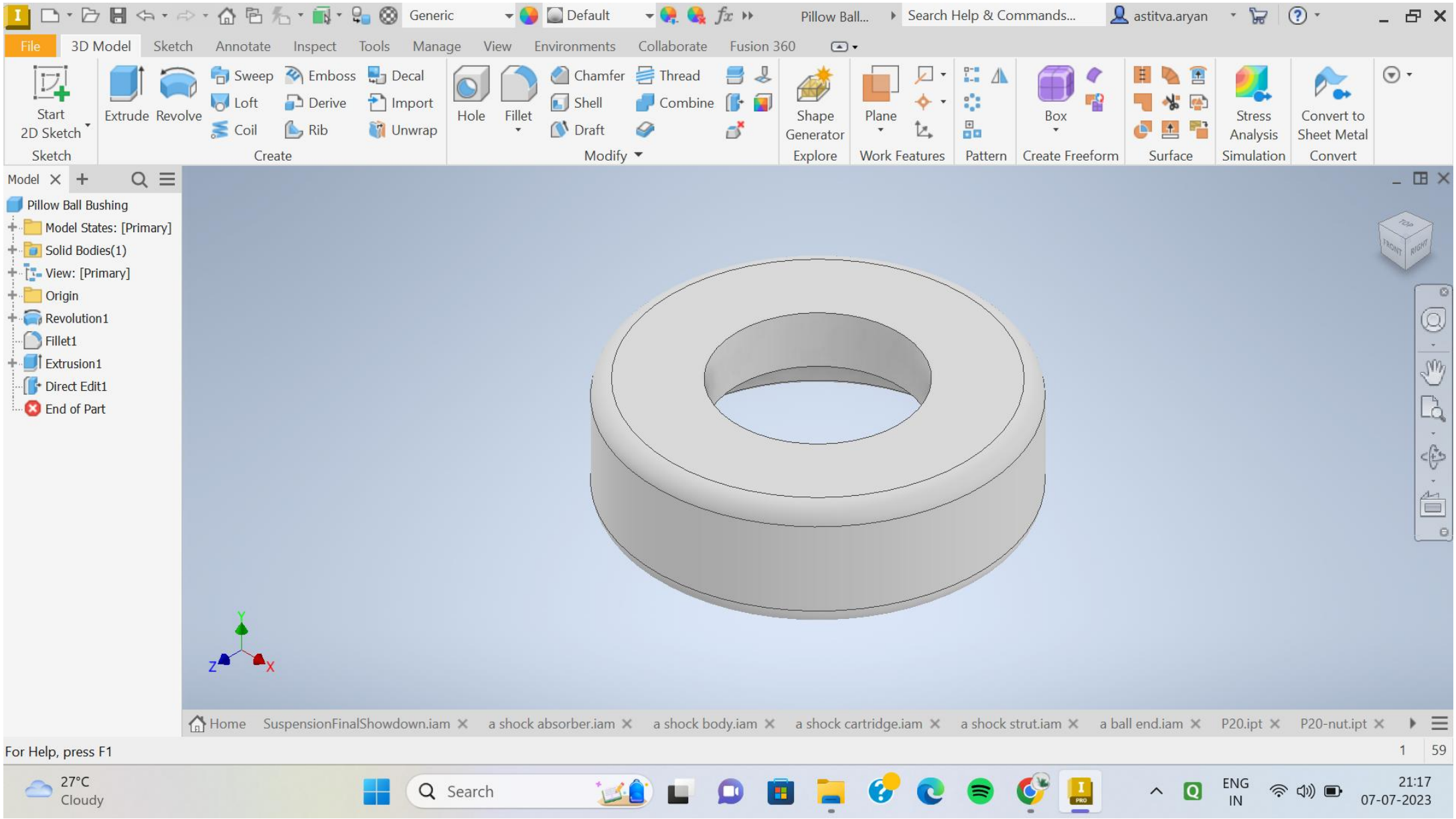
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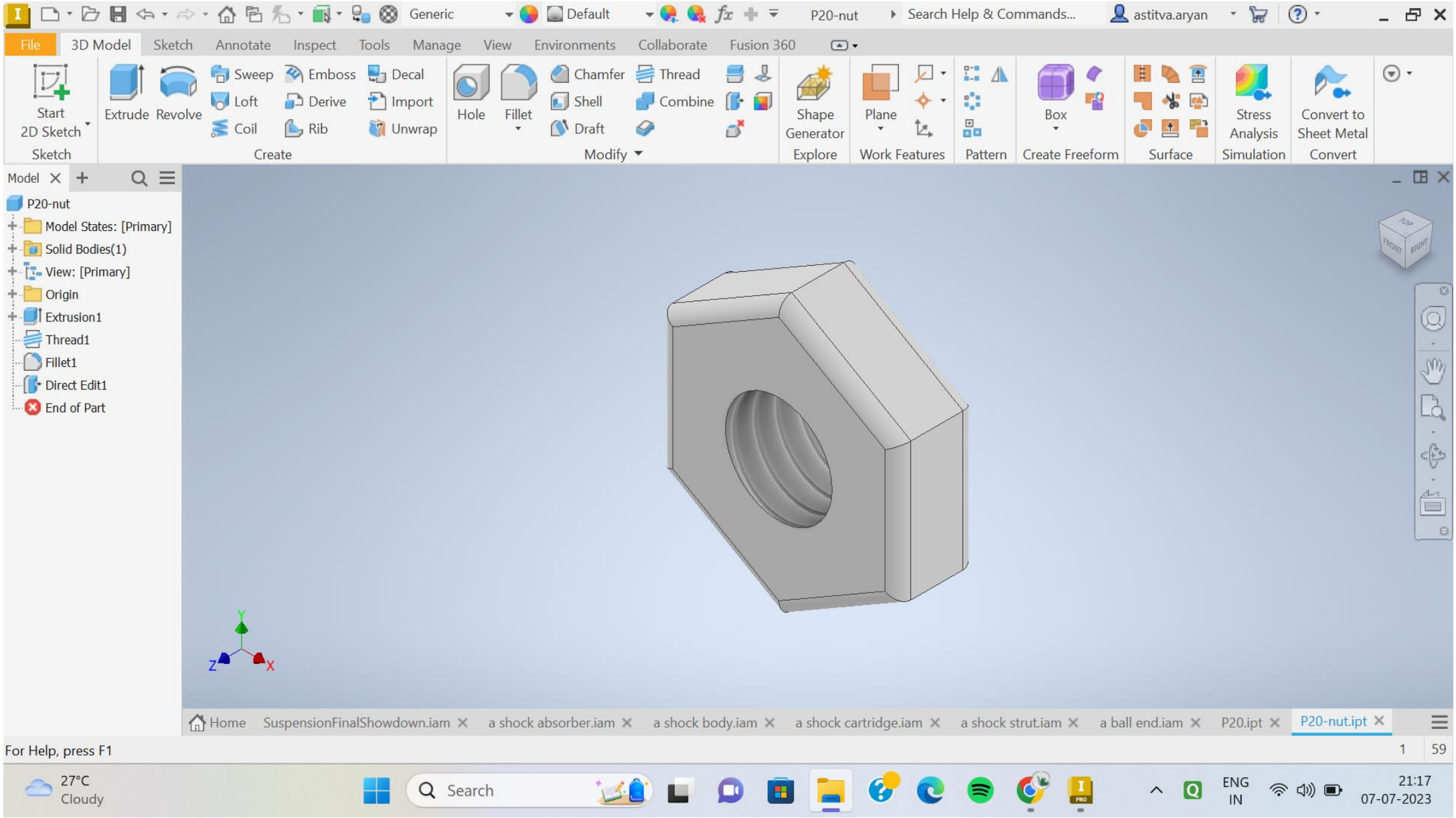
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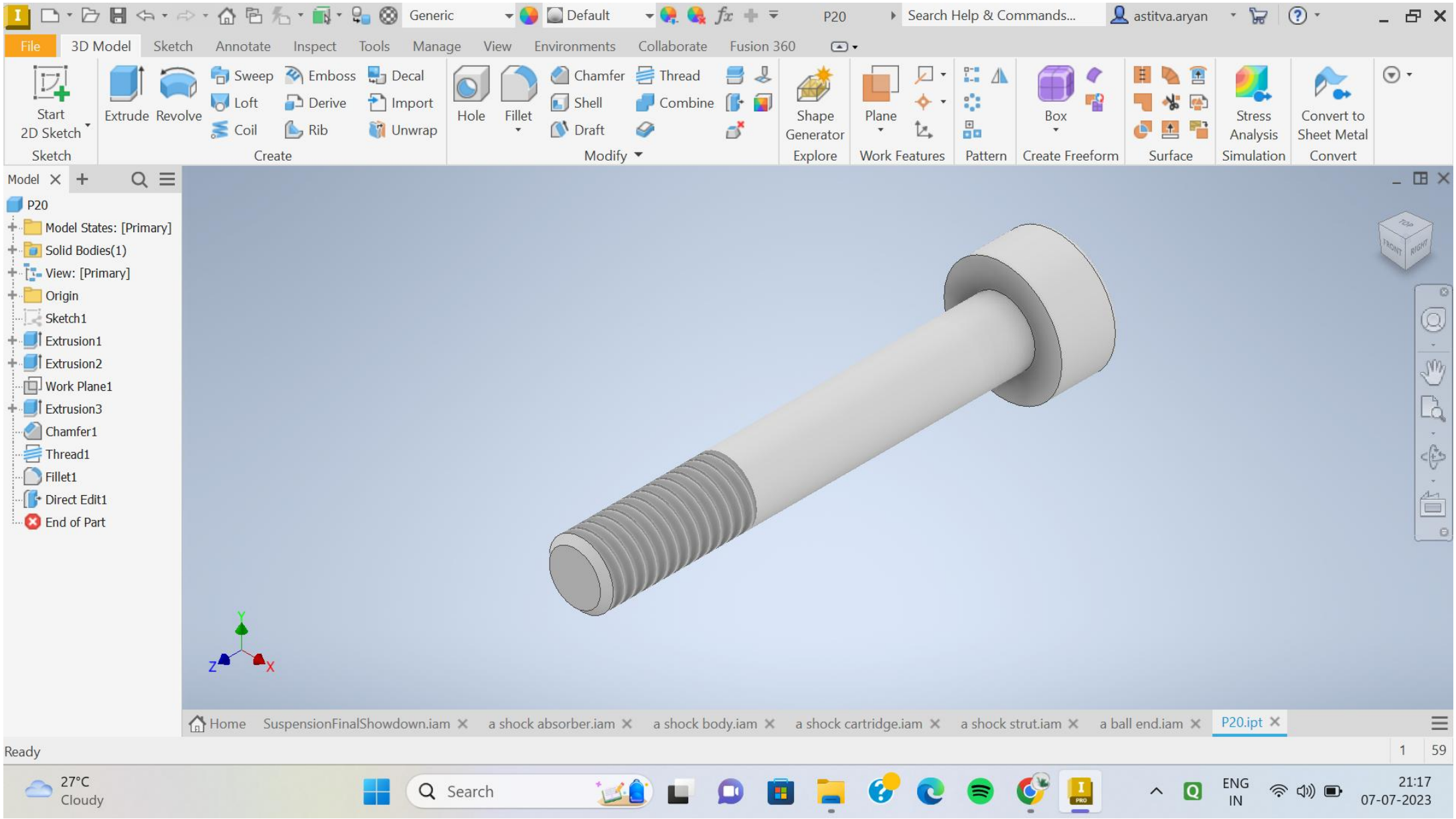
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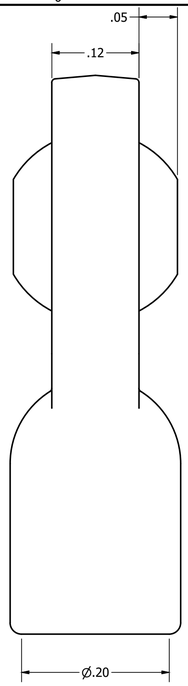

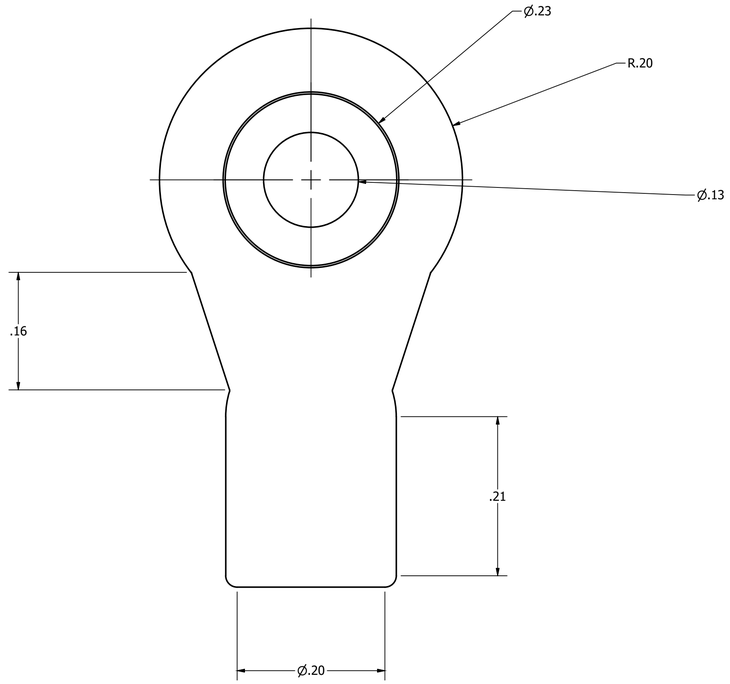

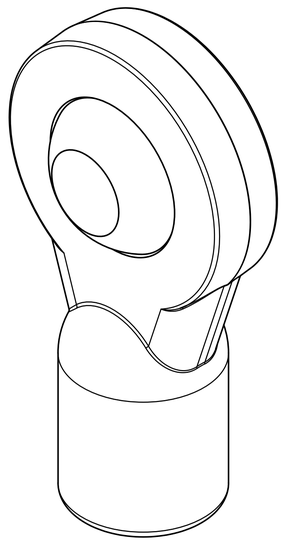

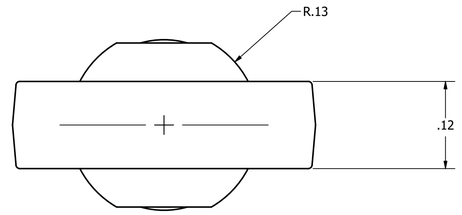

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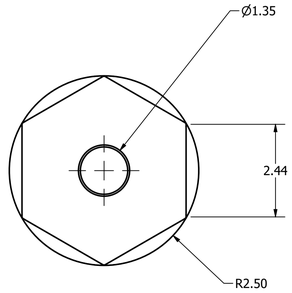

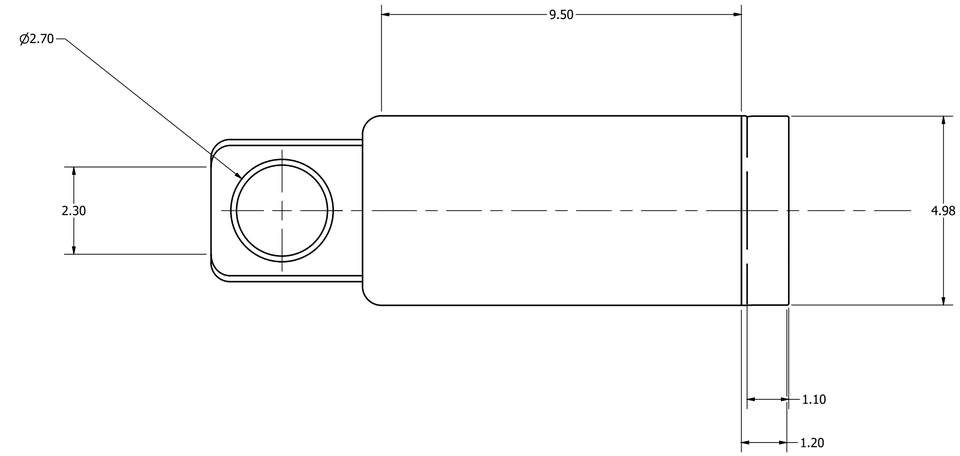

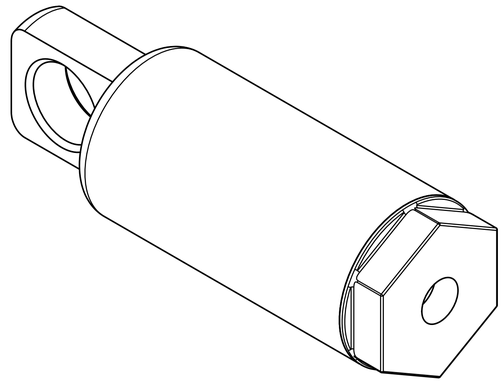

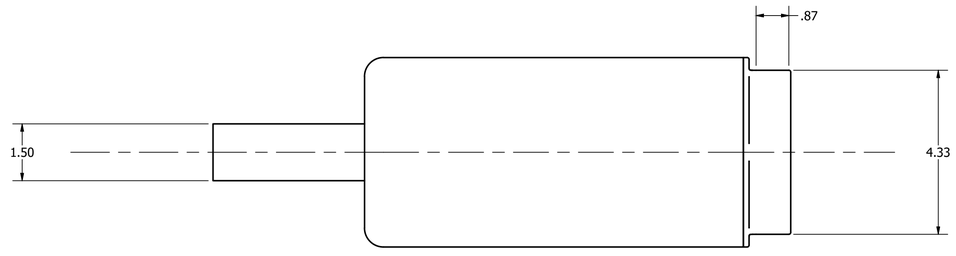

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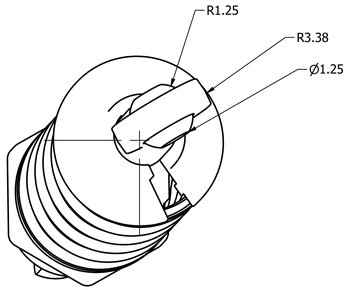

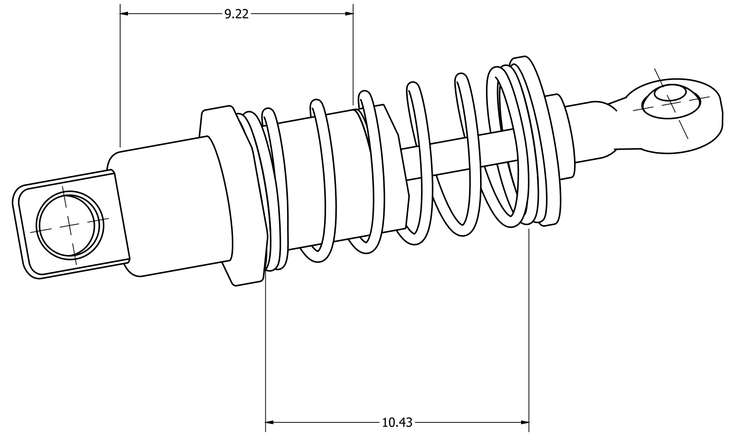

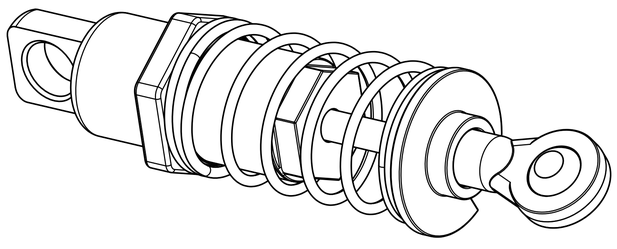

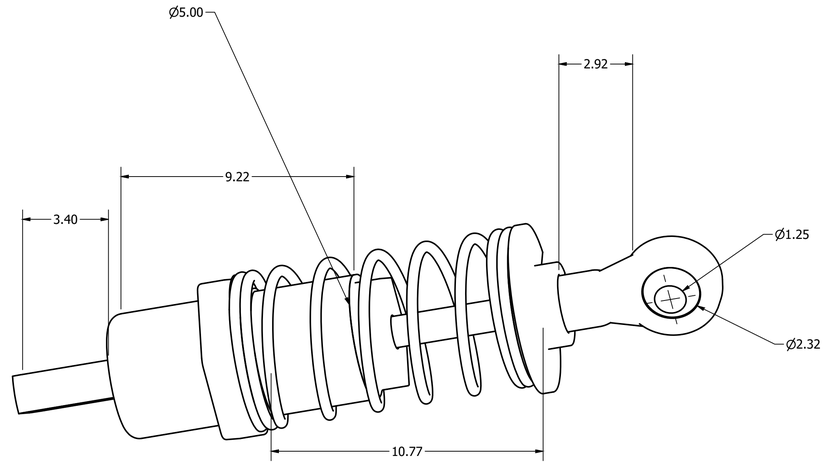

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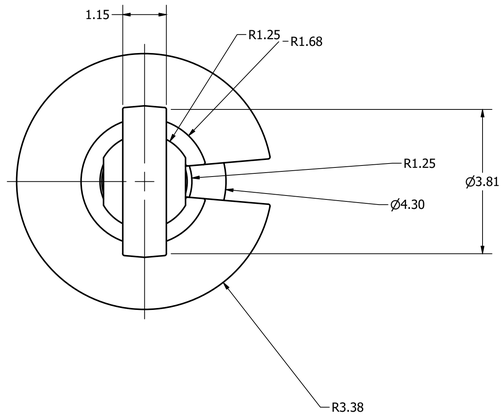

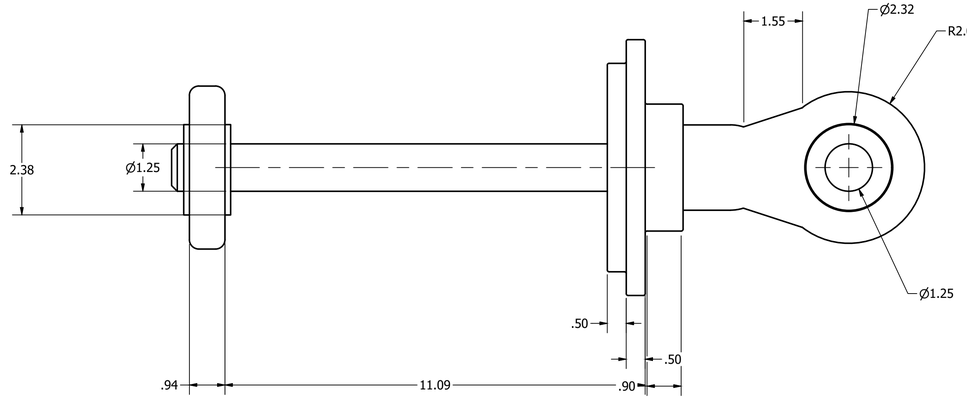

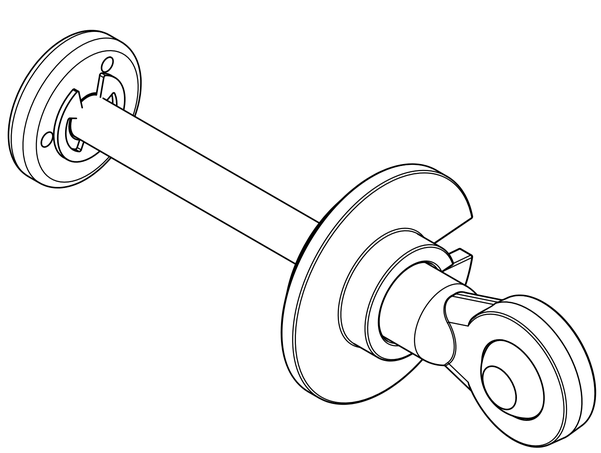

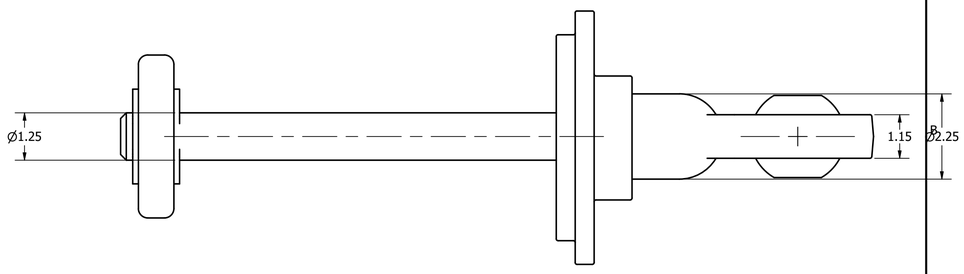

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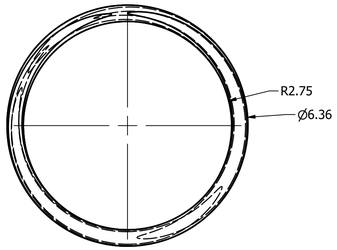

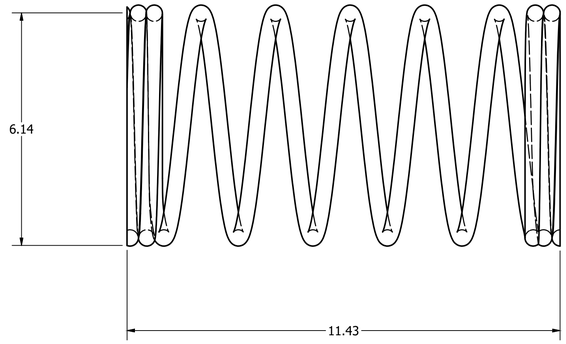

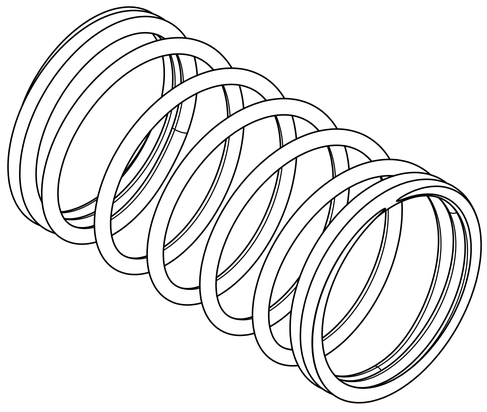

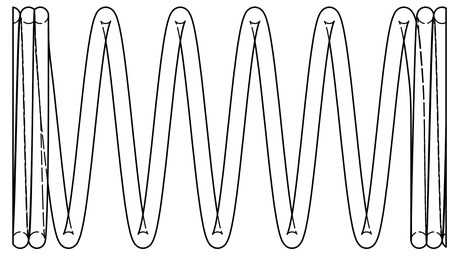

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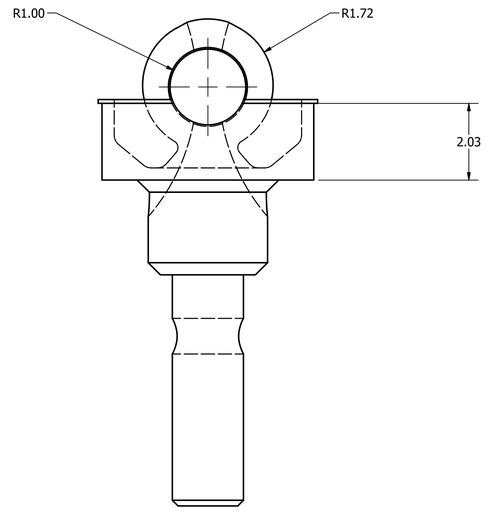
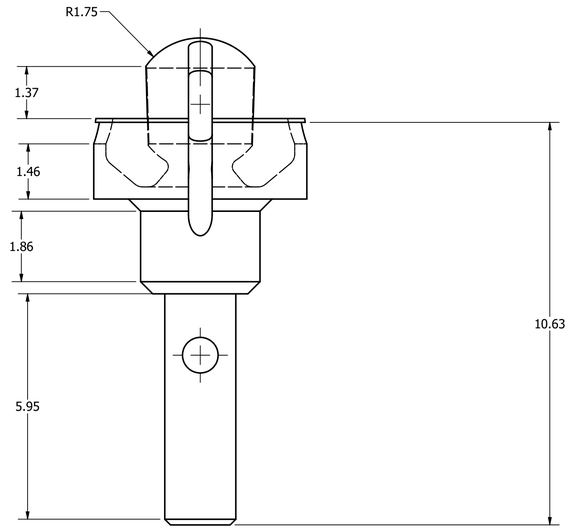
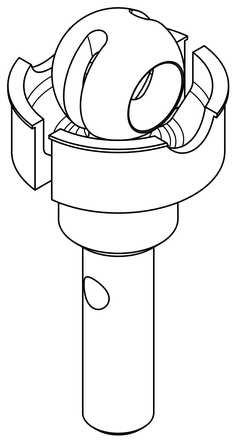
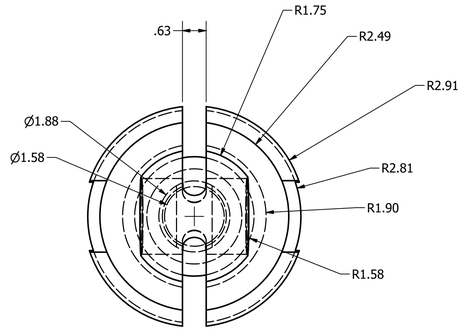
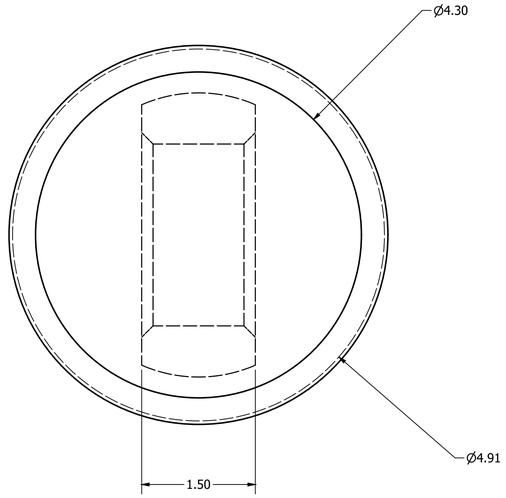


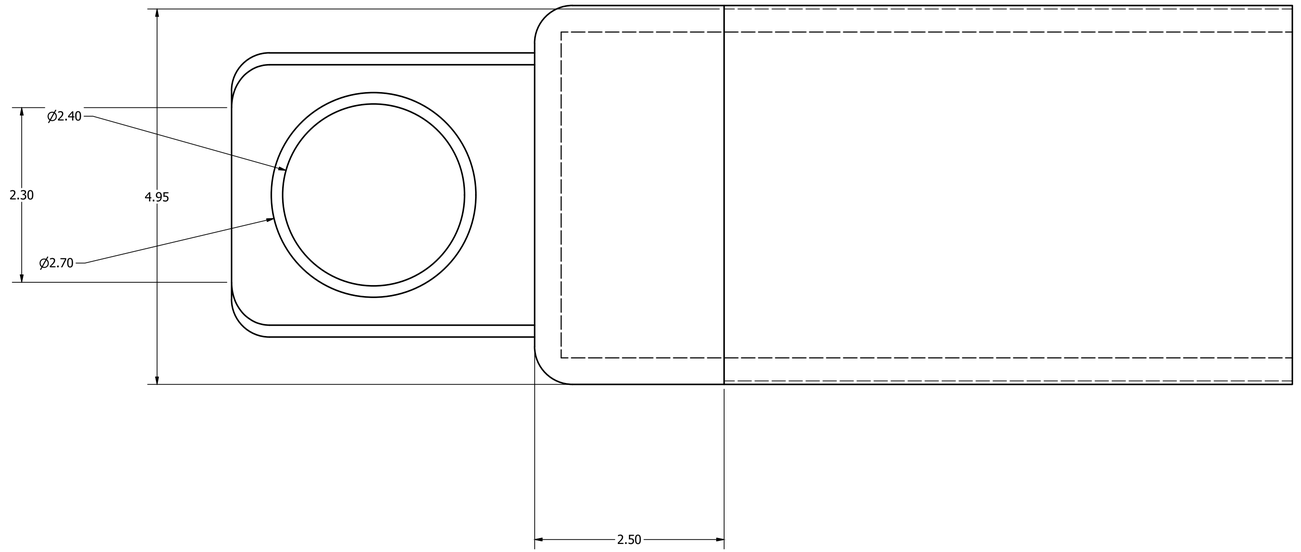


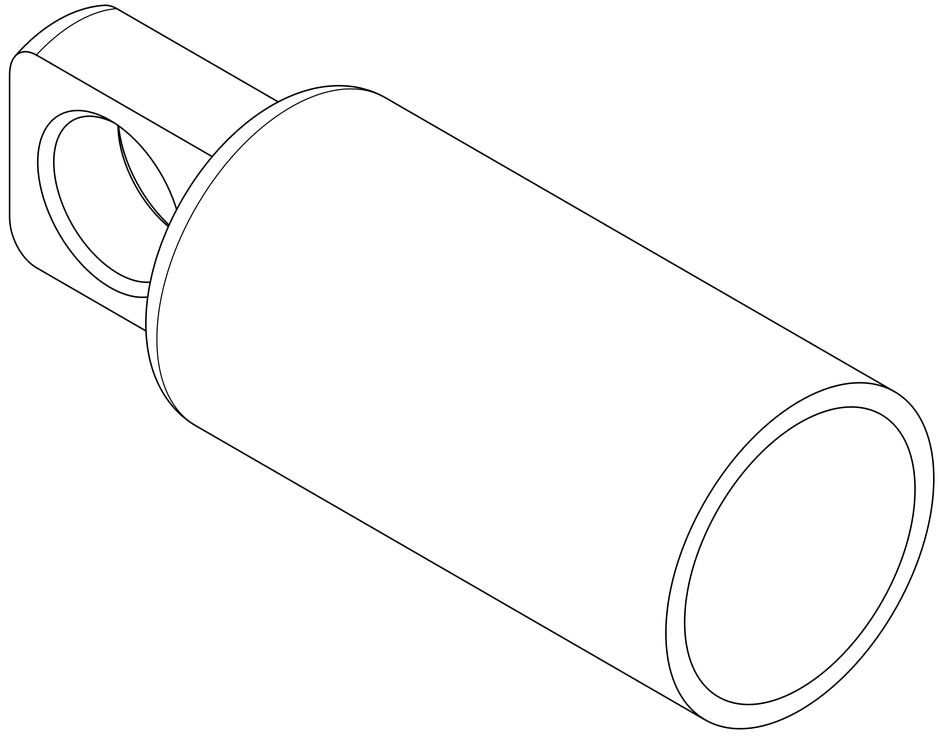


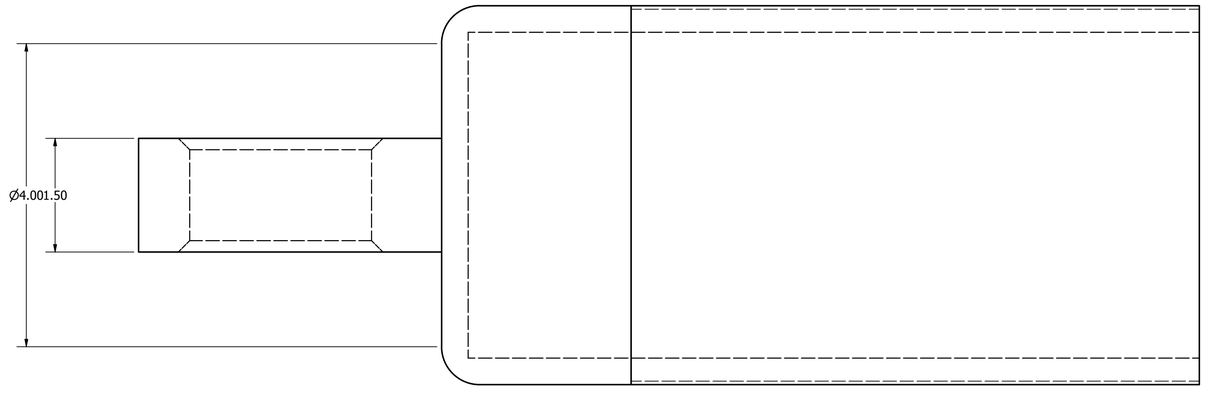


DRAWN ASTITVA	07-07-2023			
CHECKED		TITLE		
QA		FRONT AXLE		
MFG				
APPROVED		SIZE D	DWG NO front axle	REV
		SCALE 1 / 2	SHEET 1 OF 1	

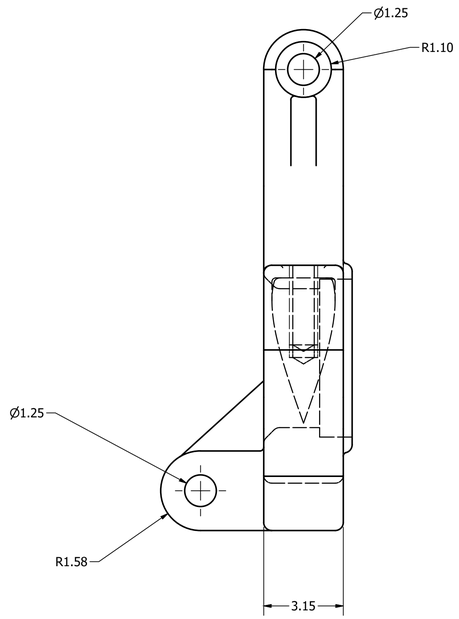


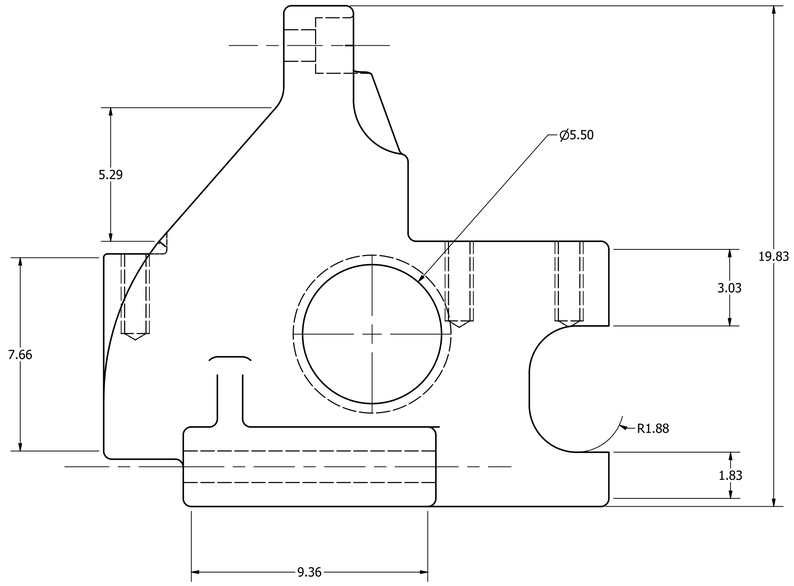


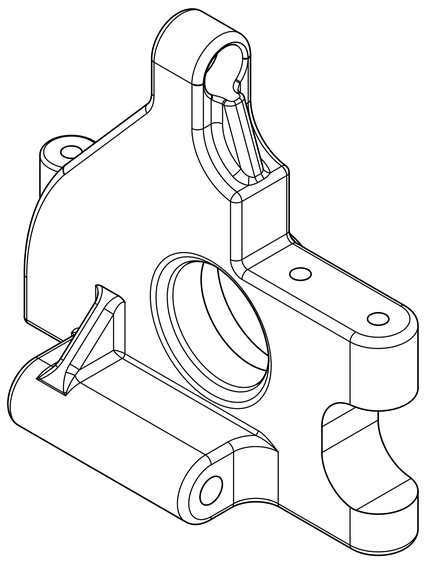


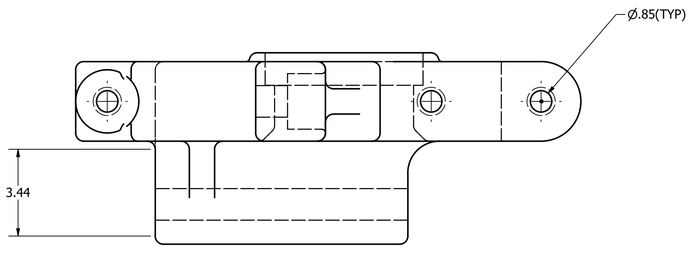


DRAWN Bhavik	07-07-2023			
CHECKED				
QA		TITLE Shock Body		
MFG				
APPROVED		SIZE D	DWG NO SA Shock Body	REV
		SCALE 1 : 1	SHEET 1 OF 1	

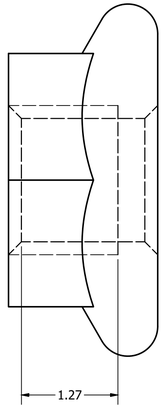


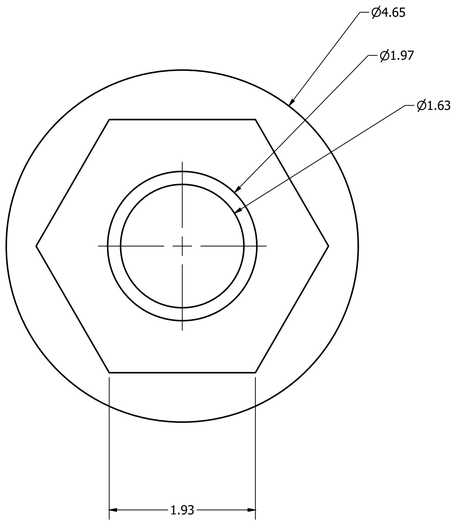


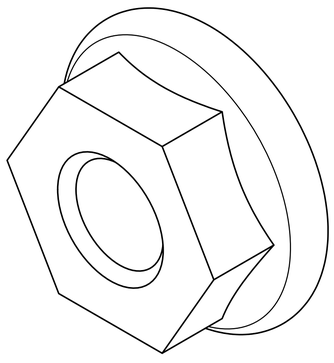


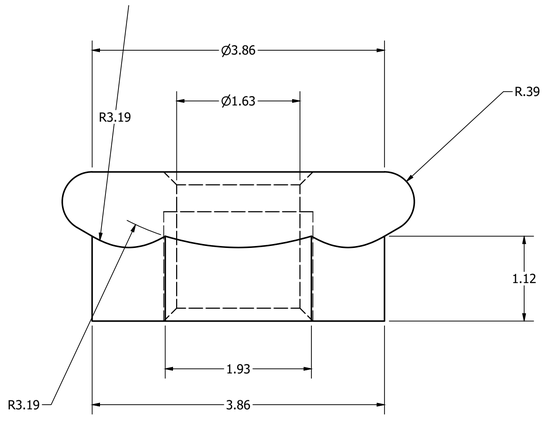


DRAWN BHAVIK	06-07-2023		
CHECKED		TITLE	FRONT LEFT PLATE
QA			
MFG			
APPROVED		SIZE D	DWG NO Front_side_plate_L[1] REV
		SCALE 1 / 3	SHEET 1 OF 1

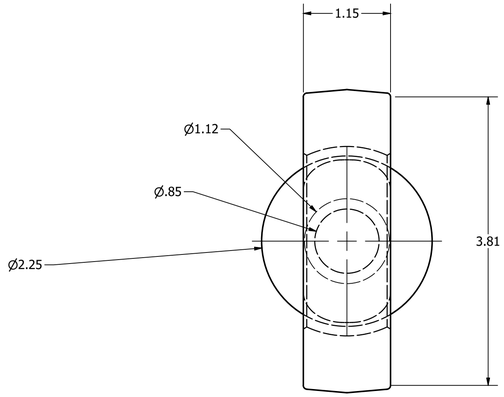


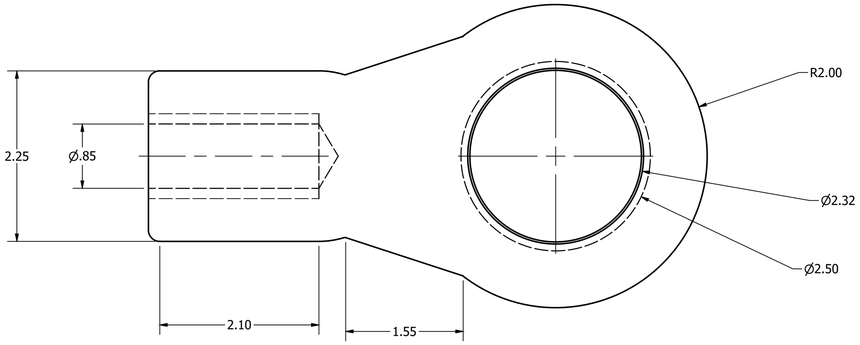


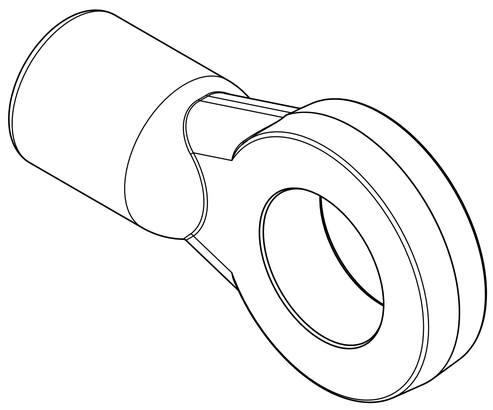


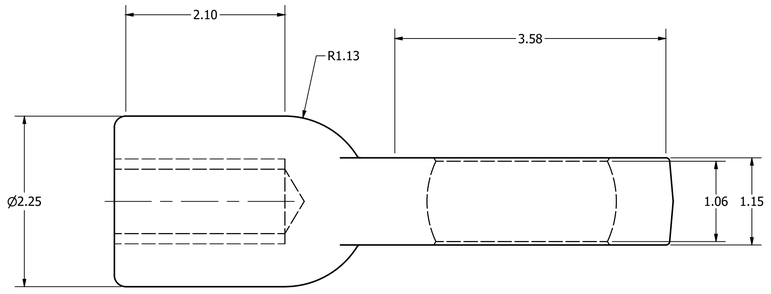


DRAWN ASTITVA	07-07-2023		
CHECKED		TITLE	
QA		ANSI	
MFG			
APPROVED		SIZE D	DWG NO ansi / REV
		SCALE 1 : 1	SHEET 1 OF 1

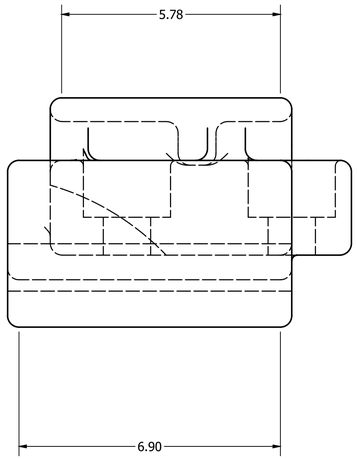


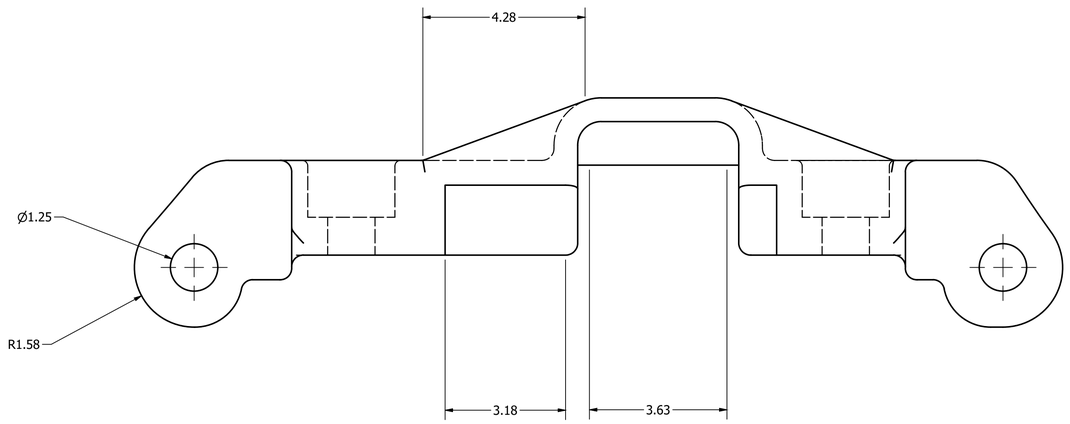


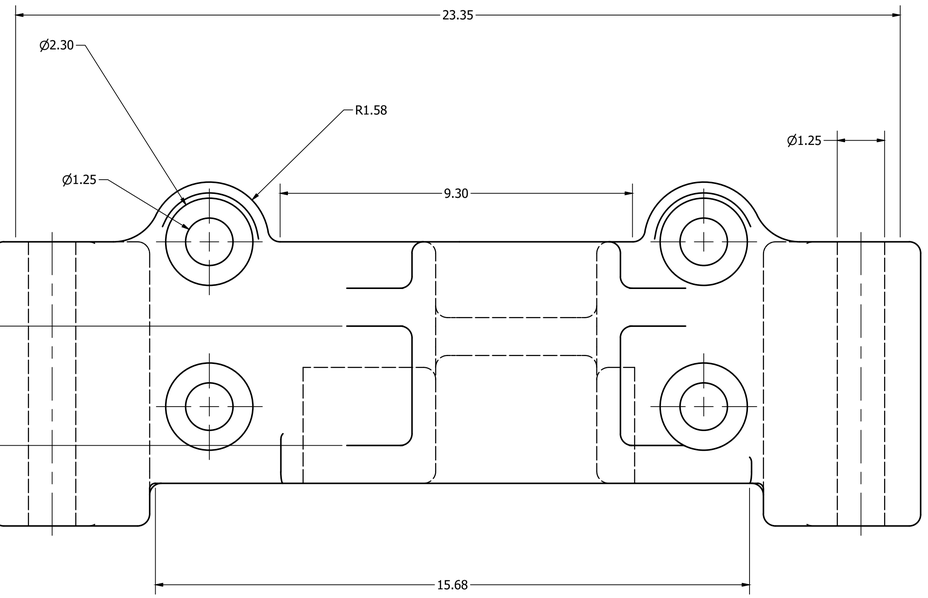




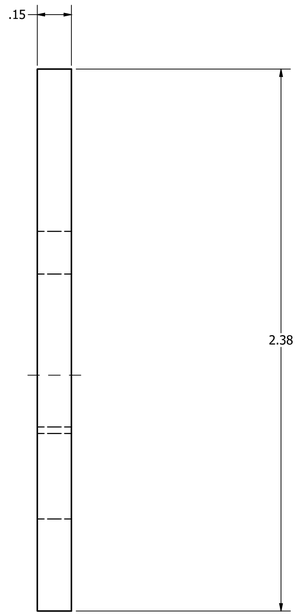
DRAWN Bhoumik	06-07-2023	
CHECKED		TITLE: Shock Absorber Ball
QA		
MFG		
APPROVED		SIZE D | DWG NO SA Ball End | REV
		SCALE 1 : 1 | SHEET 1 OF 1

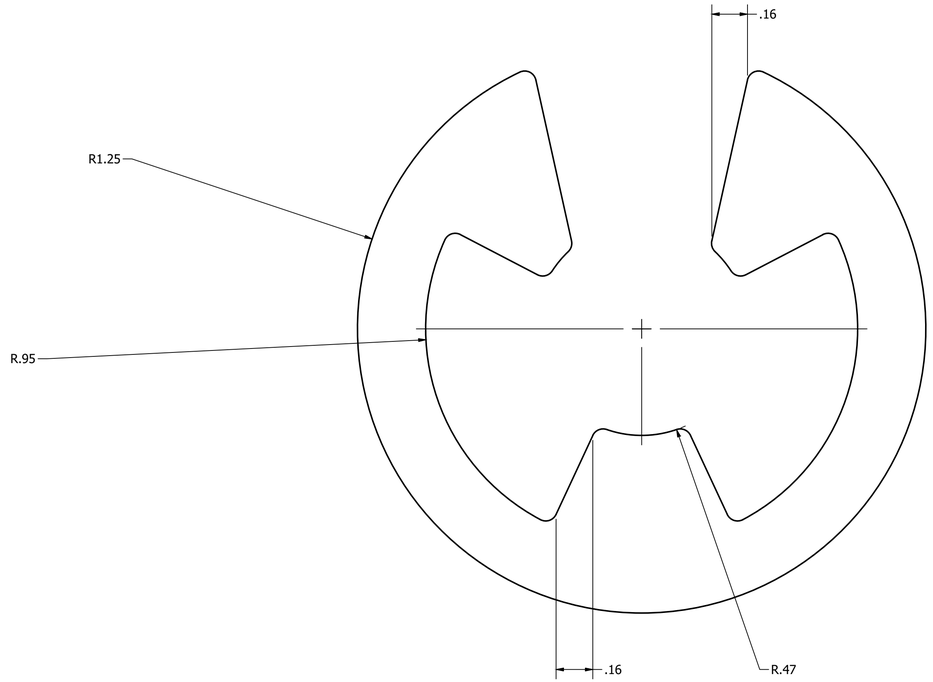


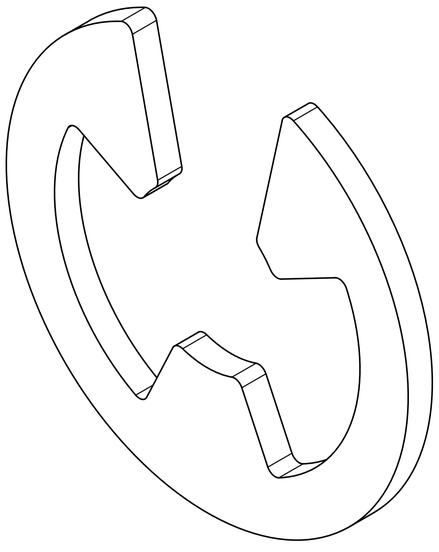


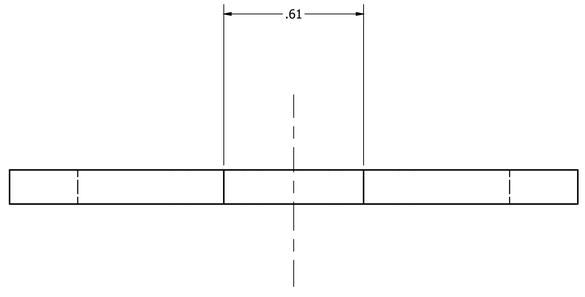


DRAWN Mamta	06-07-2023		
CHECKED		TITLE	Front Upper Arm Mount
QA			
MFG			
APPROVED		SIZE D	DWG NO Front Upper Arm Mount Mamta REV
		SCALE 1 / 2	SHEET 1 OF 1

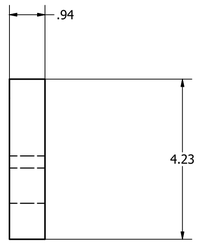


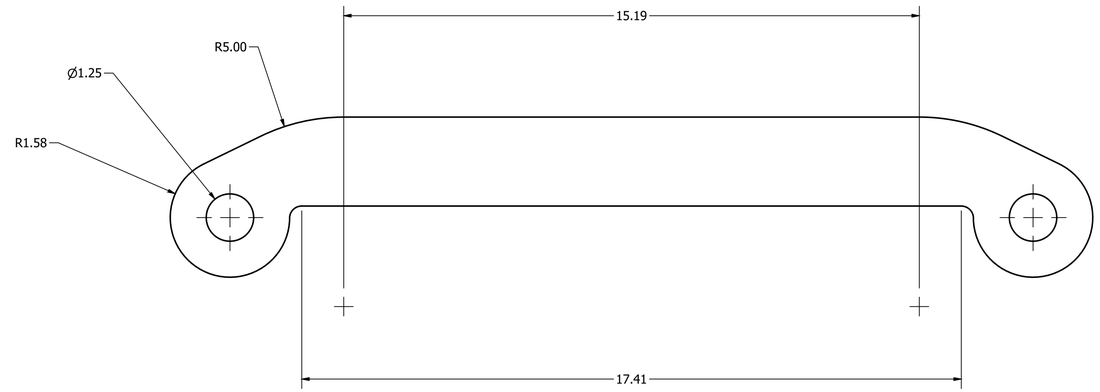


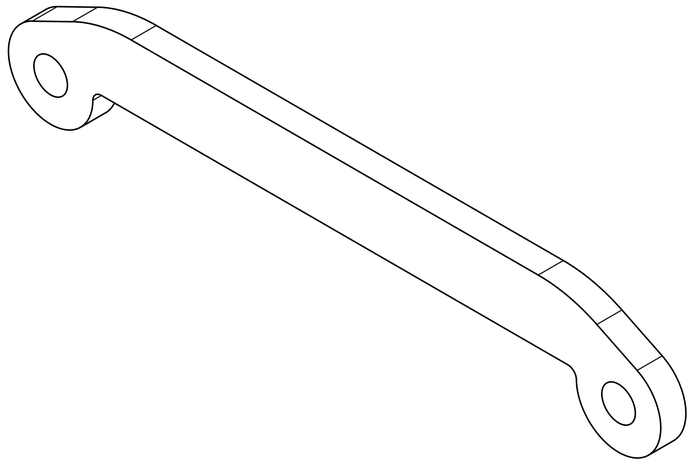




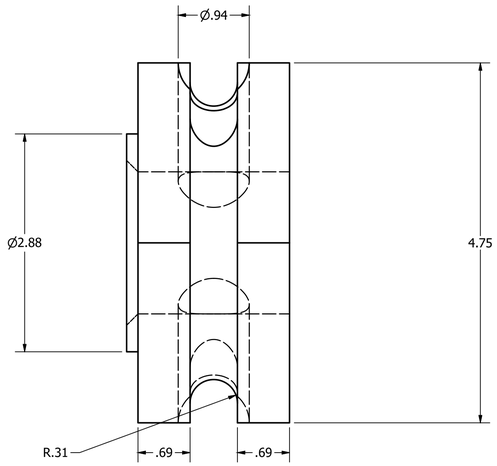
DRAWN Bhavik	06-07-2023		
CHECKED		TITLE	
QA		E-Clip	
MFG			
APPROVED		SIZE D	DWG NO SA E-Clip / REV
		SCALE 3 : 1	SHEET 1 OF 1

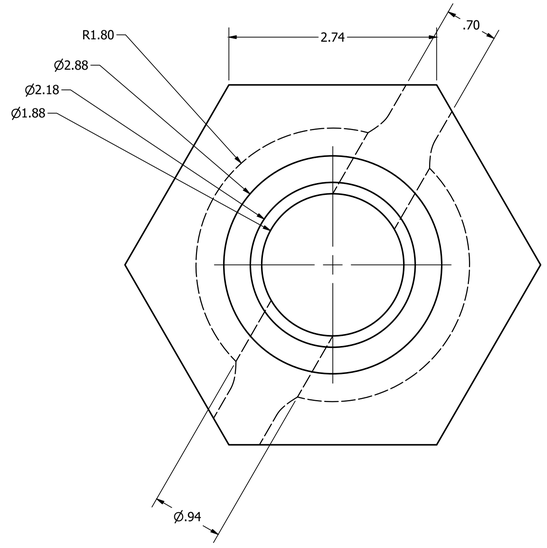


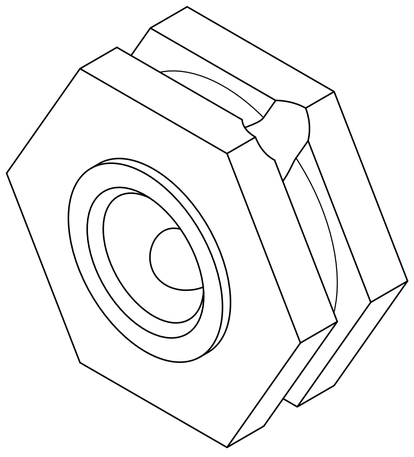


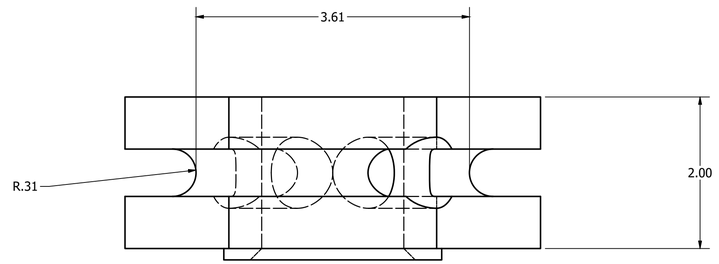


DRAWN Dhiraj	07-07-2023	
CHECKED		TITLE: Front Lower Arm Brace
QA		
MFG		
APPROVED		SIZE: D | DWG NO: Front Lower arm Brace | REV
		SCALE: 1 / 2 | SHEET 1 OF 1

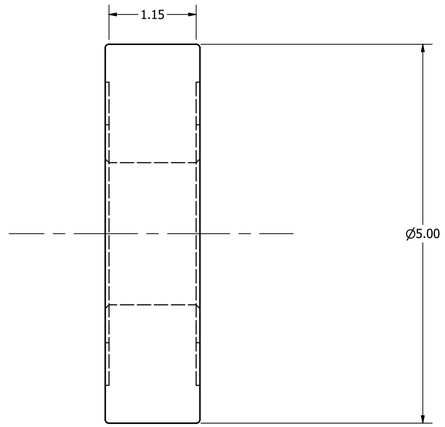


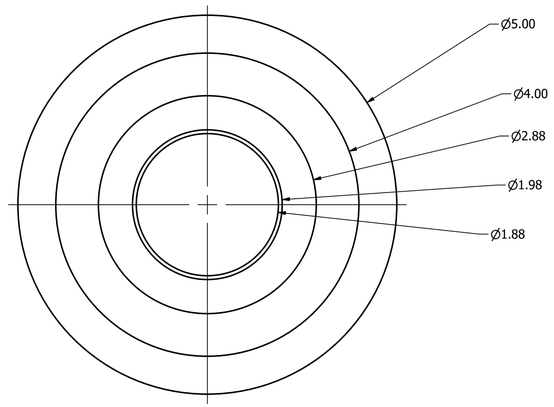


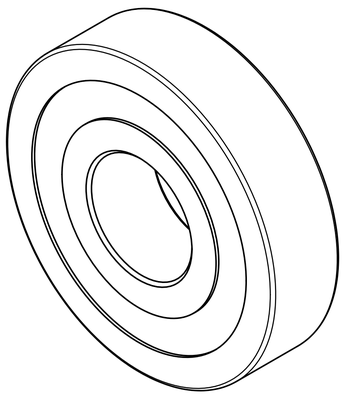


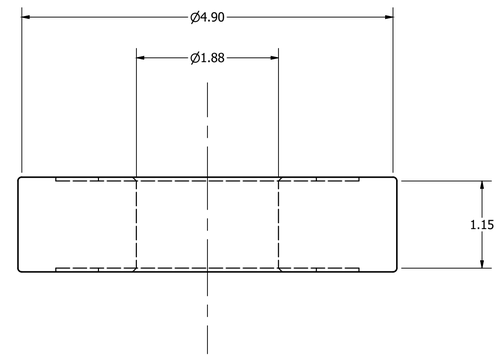


DRAWN ASTITVA	07-07-2023			
CHECKED		TITLE		
QA		HEXDRIVE		
MFG				
APPROVED		SIZE D	DWG NO HexDrive	REV
		SCALE 1 : 1	SHEET 1 OF 1	

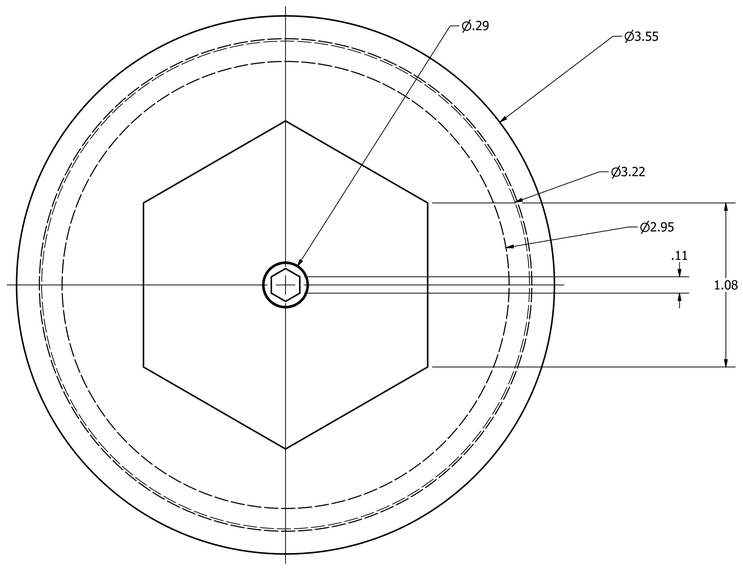


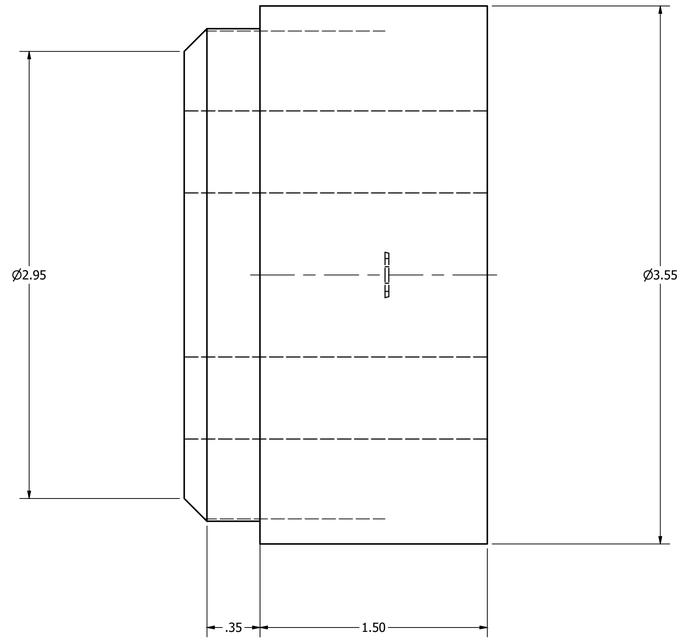


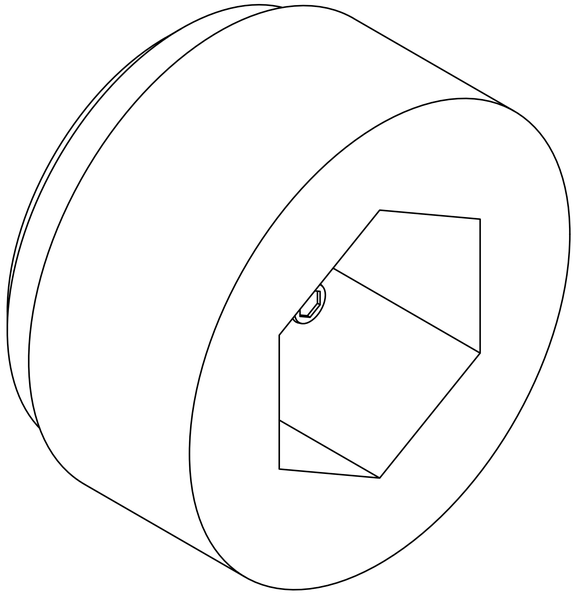




DRAWN BHAVIK	07-07-2023			
CHECKED		TITLE		
QA		REAR HUB BEARING		
MFG				
APPROVED		SIZE D	DWG NO rear hub bearing	REV
		SCALE 1 : 1	SHEET 1 OF 1	

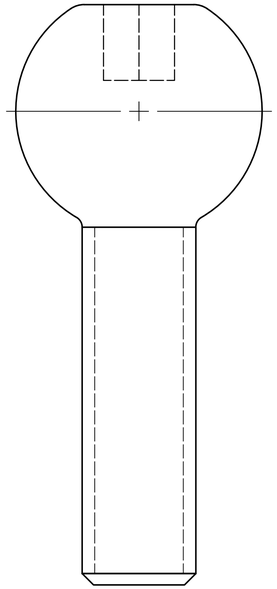


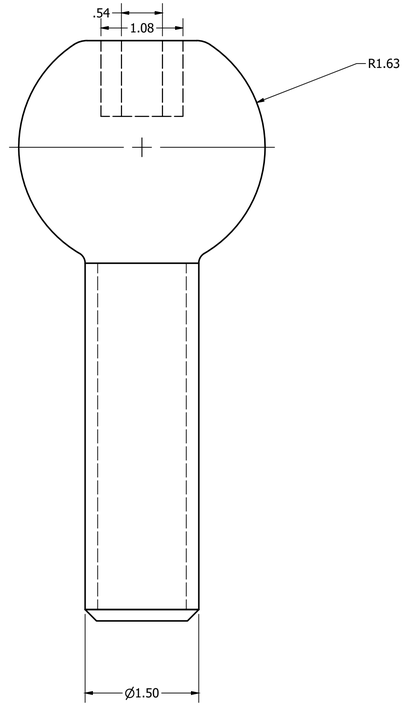


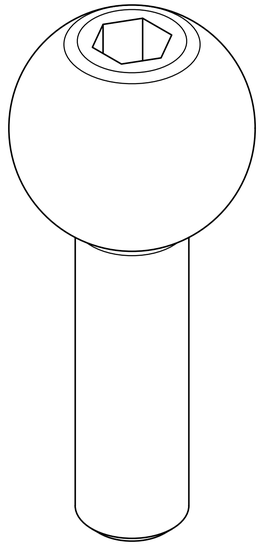


DRAWN BHAVIK	07-07-2023		
CHECKED		TITLE	
QA		PILLOW BALL RETAINER	
MFG			
APPROVED		SIZE D	DWG NO Pillow Ball Retainer
		SCALE 2 : 1	SHEET 1 OF 1

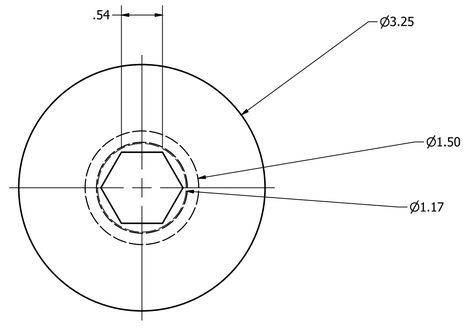
REV



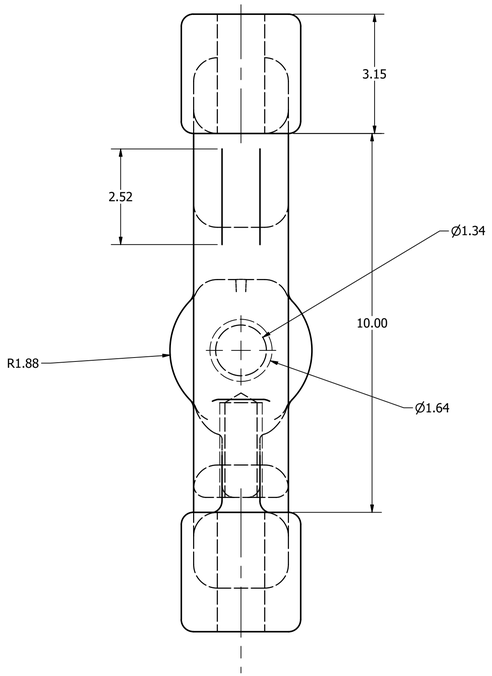


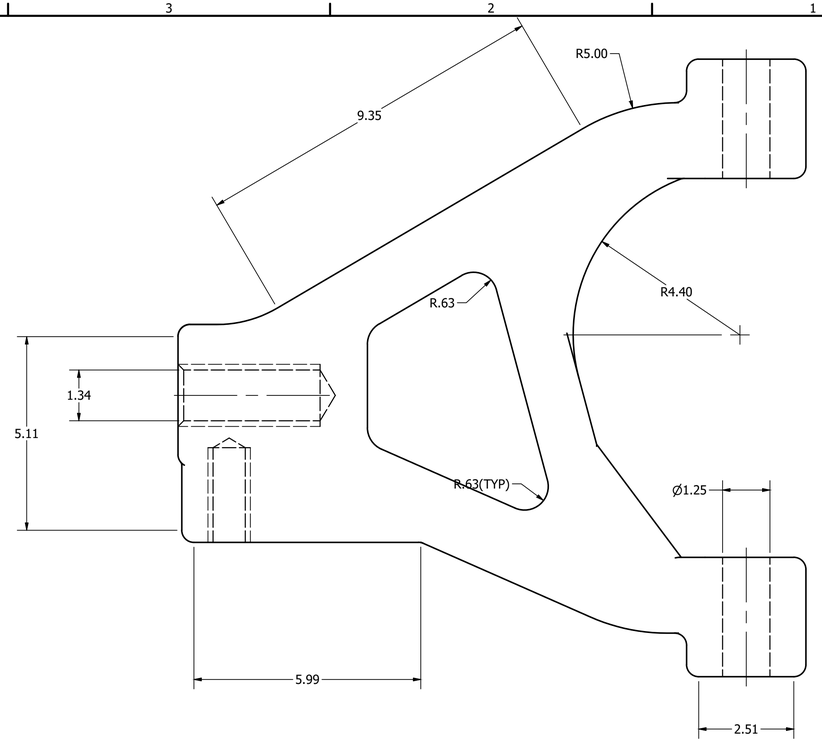


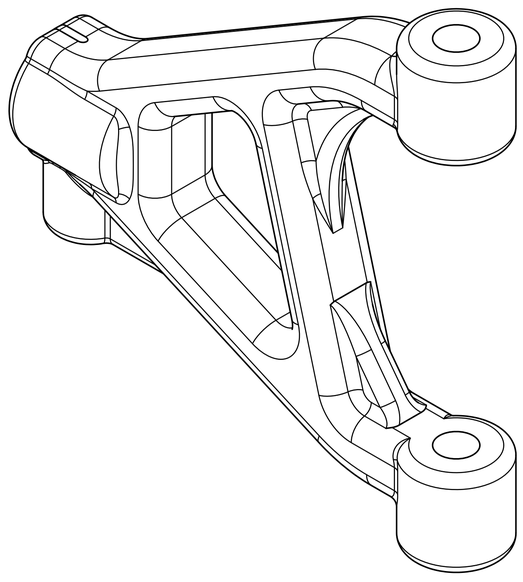
ISOMETRIC VIEW
SCALE 1:1

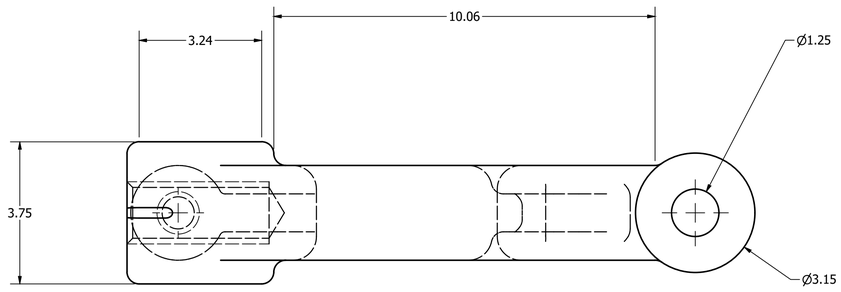


DRAWN BHAVIK	07-07-2023	
CHECKED		TITLE: PILLOW BALL
QA		
MFG		
APPROVED		SIZE D | DWG NO Pillow Ball | REV
		SCALE 1 : 1 | SHEET 1 OF 1

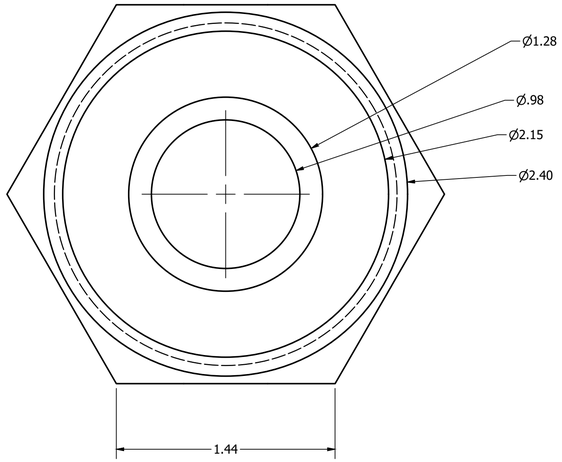


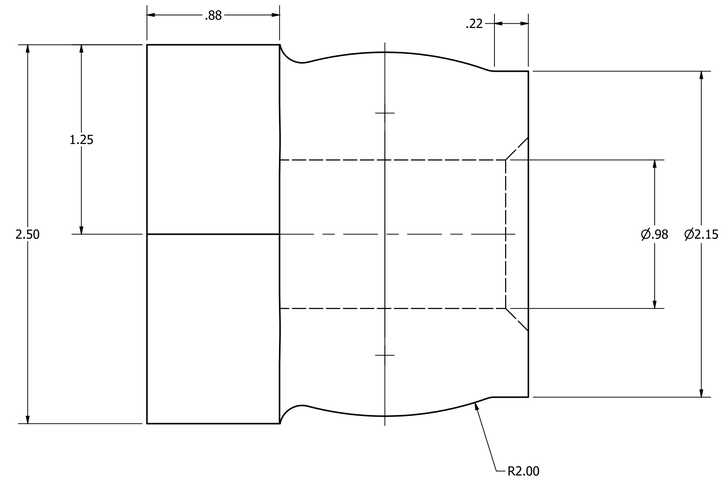


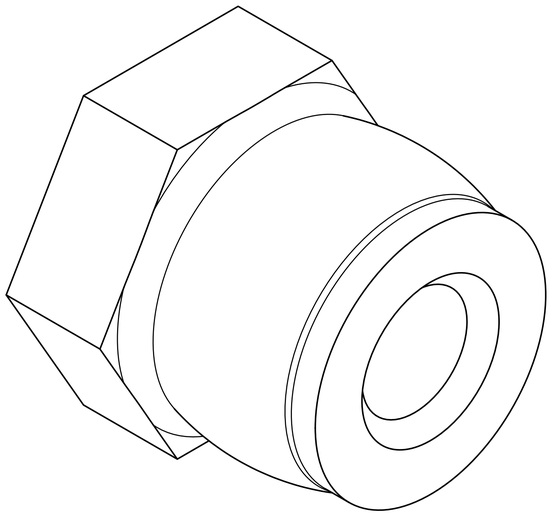


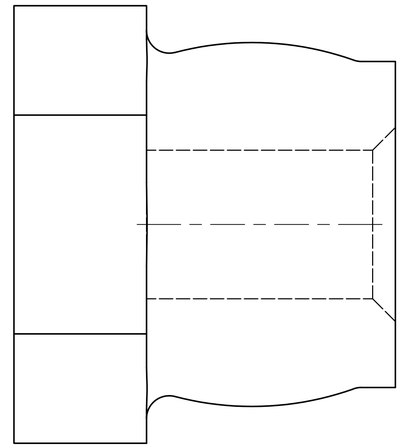


DRAWN patel	06-07-2023			
CHECKED		TITLE		
QA				
MFG				
APPROVED		SIZE D	DWG NO LFA	REV
		SCALE 1 / 2	SHEET 1 OF 1	

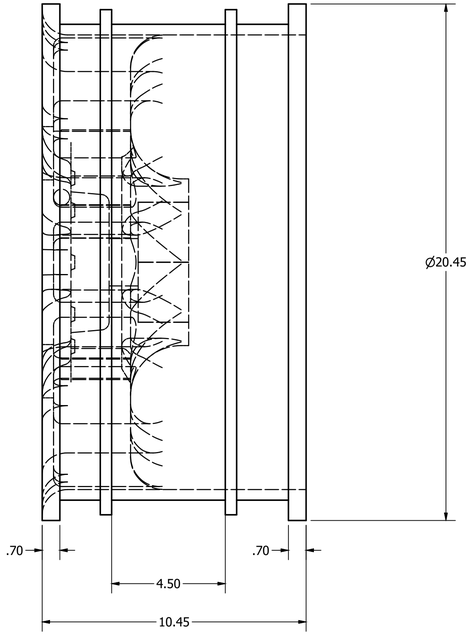


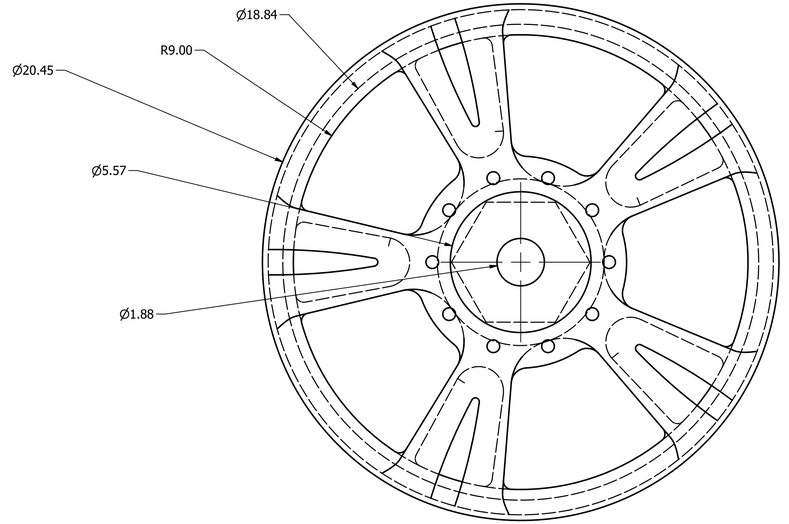


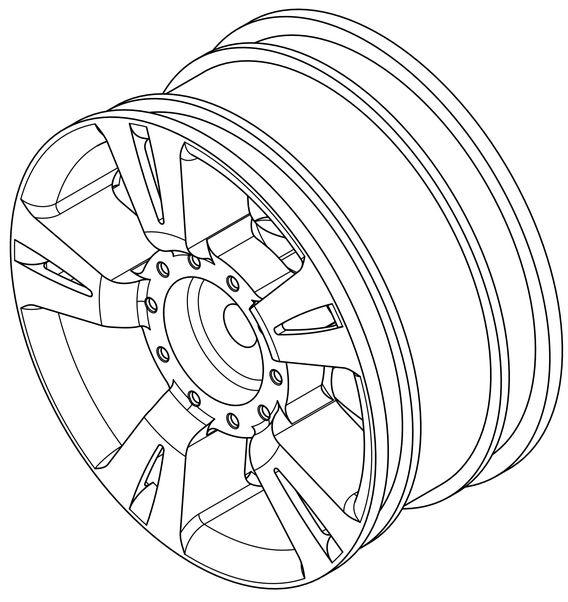




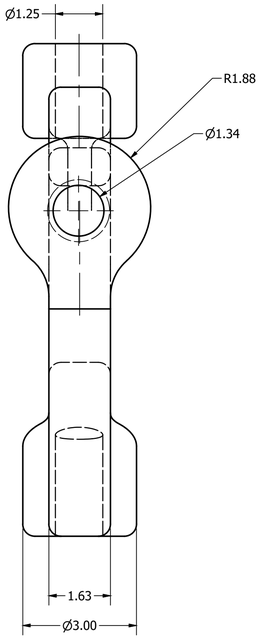
DRAWN Bhavik	07-07-2023			
CHECKED		TITLE Shock Bushing		
QA				
MFG				
APPROVED		SIZE D	DWG NO Shock Bushing	REV
		SCALE 2 : 1	SHEET 1 OF 1	

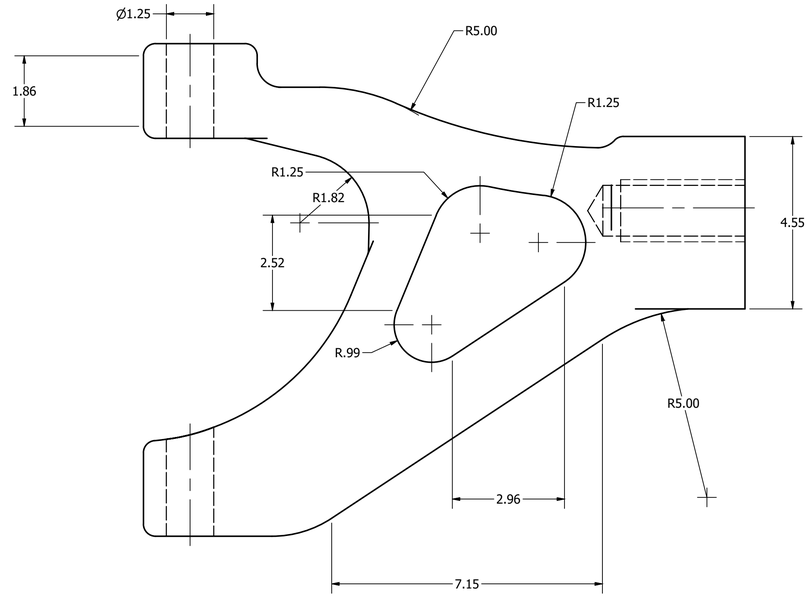


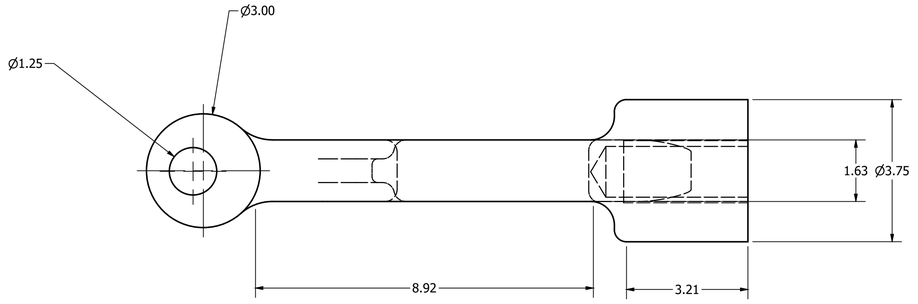




DRAWN patel	06-07-2023			
CHECKED		TITLE		
QA				
MFG				
APPROVED		SIZE D	DWG NO Wheel_Dapse[1]	REV
		SCALE 1 / 3	SHEET 1 OF 1	







DRAWN Atharav B	07-07-2023			
CHECKED		TITLE Front Upper Arm		
QA				
MFG				
APPROVED		SIZE D	DWG NO Front Upper Arm	REV
		SCALE 1 / 2	SHEET 1 OF 1	