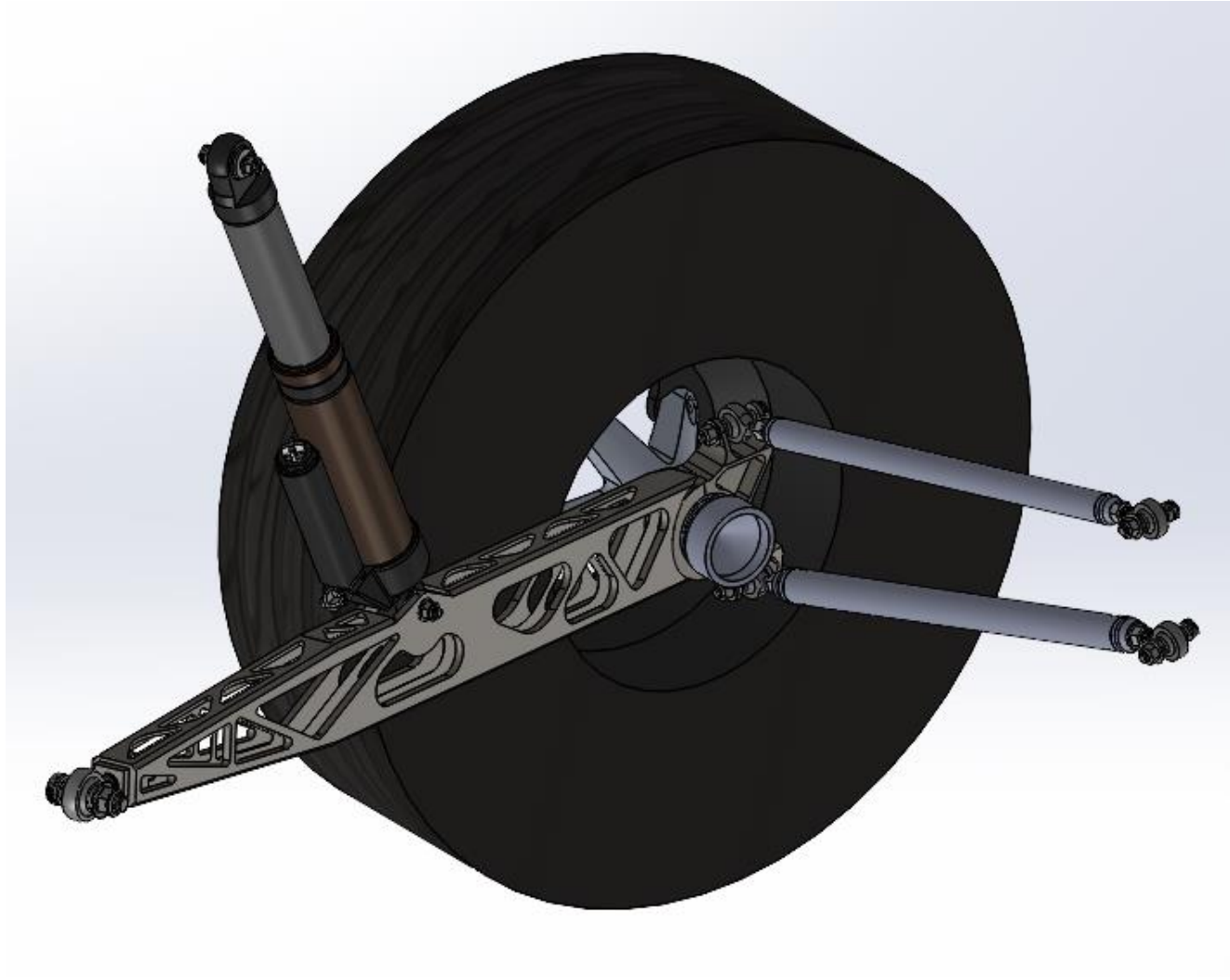


SAE Baja '24 Rear End

66% Hardware Check

Joey Barta, Lars Jensen, Seth DeLuca

Design Efforts



Purchasing Plan

Part Name	Quantity	Cost	Total Cost	Material	Purchase/Made	Vender	Vender Part Number
Trailing Link Laser Cut	10	N/A	N/A	1/4" A36 Steel Plate	Sponsored	VROOM	N/A
Trailing Link Weld	2	N/A	N/A	1/4" A36 Steel Plate	Made	NAU SAE Baja	N/A
Trailing Link Rod End Spacer	4	N/A	N/A	6061-T6 Aluminum	Made	NAU SAE Baja	N/A
Trailing Link Rod End Insert	2	N/A	N/A	A36 Steel	Made	NAU SAE Baja	N/A
Shock Spacer	8	N/A	N/A	6061-T6 Aluminum	Made	NAU SAE Baja	N/A
Float 3 EVOL RC2 Shock	2	N/A	N/A	Magnesium	Own	NAU SAE Baja	N/A
Wheel	2	N/A	N/A	Steel	Own	NAU SAE Baja	N/A
Tire	2	N/A	N/A	Rubber	Own	NAU SAE Baja	N/A
Yamaha Grizzly 350 CV						iy	YFM350FGI
SKF Deep Groove Bearing						zon	B00L5DC82E
Wheel Hub Spacer						E Baja	N/A
Rear Wheel Hub						E Baja	N/A
Yamaha Grizzly 350 Wheel Hub						iy	5FU-F5377-11-00
Rear Knuckle						E Baja	N/A
5/8" Ball Joint Rod End with Nut - RH						er-Carr	4237N107
3/8" Super-Swivel Ball Joint Rod End - LH (r						er-Carr	6960T23
3/8" Super-Swivel Ball Joint Rod End -						er-Carr	6960T23
5/8"-1.25" Shoulder Screws						State	10STCP-0630150
3/8"-1.25" Shoulder Screws						State	10STCP-0380125
3/8"-1.5" Shoulder Screws						State	10STCP-0380150
5/16"-18 Nylon-Insert Flange Locknu						State	08N8CY-031
1/2"-13 Nylon-Insert Flange Locknu						State	08N8CY-050
Steel Camber Link Insert						E Baja	N/A
Steel Camber Link						tion Supply	TBE-25.4-.9-1200-4130
Steel Camber Link Weld	2	N/A	N/A	Welding Wire	Made	NAU SAE Baja	N/A
Carbon Fiber Camber Link Insert	4	N/A	N/A	6061-T6 Aluminum	Made	NAU SAE Baja	N/A
Carbon Fiber Camber Link	2	20.95	41.9	Roll Wrapped Carbon Fiber	Purchase	Amazon	B0791XDV7W
Epoxy	1	47.01	47.01	Epoxy Resin	Purchase	Amazon	21200822254
Carbon Fiber Camber Link Glue	2	N/A	N/A	Roll Wrapped Carbon Fiber	Made	NAU SAE Baja	N/A
Wheel Stud and Lugnuts	2	38.95	77.89	Titanium	Purchase	Ti64	366
LH 3/8-24 jam Nuts	8	15.51	15.51	steel	purchase	homeco	99612A119
TOTAL PARTS:	111						
TOTAL COST:		568.51					

Designed Percent	100
Total Purchased Parts	77
Complete parts purchased	67
Purchased percent	87.0
Manufactured Parts:	34
Total Manufacturing Time:	89.5
Completed Manufacturing time:	55
Manufactured Percent:	61.5

Manufacturing Plan



Manufacturing Plan



Weld Inserts to tubing



Cut inserts to size of CF Tubing

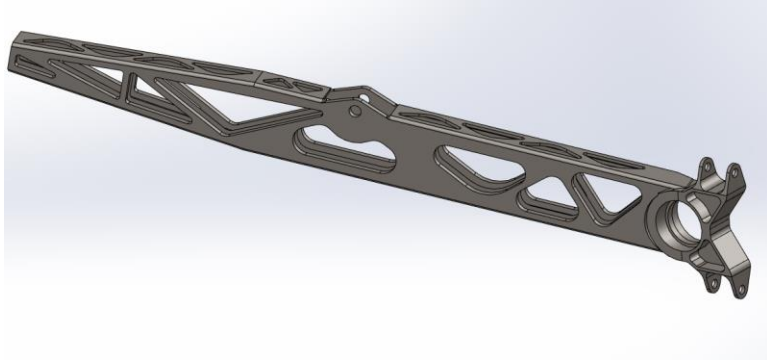
Next Steps

Knurling, drilling, tapping, and cutting radius on aluminum inserts

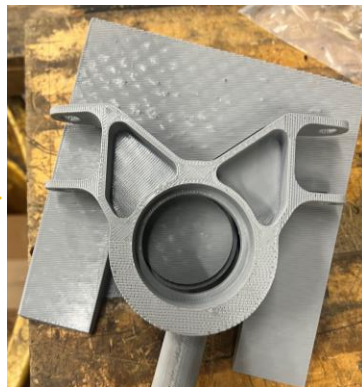
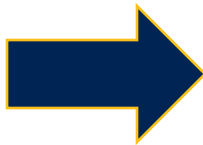
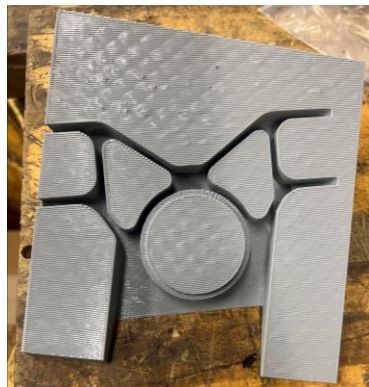
Fastening aluminum inserts to carbon fiber tubing

Manufacturing Spacers for proper fitment to the chassis tabs

Manufacturing Plan



Welding knuckle to arm



Current Rear Assembly Progress



Gantt Chart Updates

