Drive Train 67% Build Update

By: Erik DiMaria Logan Gerard Wilson Claire Pescatore

SAE SELECTION A UNILERED

Gantt Chart

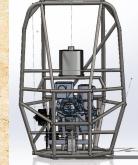
SAE Baja Team 9 Gantt chart

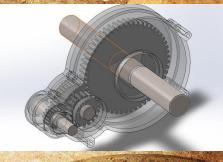
achary Biehl,Jared Bonds, Dylan W	Project Start:	Fri, 1/20/2023		
		Display Week:	1	
ASK	ASSIGNED TO	PROGRESS	START	END
/16/2023- 2/13/23				
Time Card Week 1	Team	100%	1/20/23	1/24/23
Project Management Assignment	Team	100%	1/24/23	1/25/23
Engineering Model Summary	Team	100%	1/24/23	1/29/23
Individual learning assignment	Indvidual	100%	1/29/23	2/3/23
Time Card Week 2	Team	100%	1/24/23	1/30/23
Time Card Week 3	Team	100%	1/30/23	2/6/23
Hardware Status Update/ 33% build	Team	100%	2/6/23	2/13/23
Peer Eval 1	Individual	100%	2/6/23	2/13/23
Time Card Week 4	Team	100%	2/6/23	2/13/23
/14/23-3/6/23				
Time Card week 5	Team	100%	2/13/23	2/20/23
Staff meeting/finalizing design	Team	100%	2/18/23	2/23/23
Time Card week 6	Team	100%	2/23/23	2/26/23
Website check 1	Team/Claire	100%	2/23/23	3/3/23
Hardware status update/67% build	Team	60%	3/3/23	3/6/23

Drivetrain Placemen



Side View of Engine Assembly





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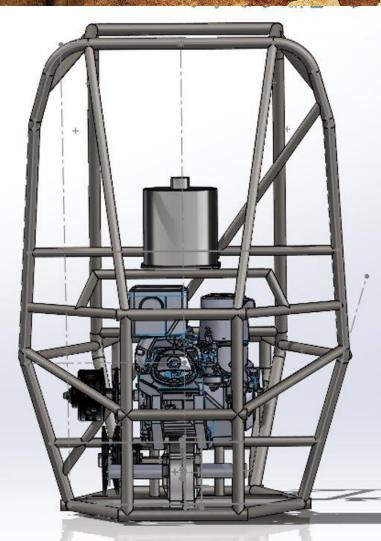
Finished Gear Casing

Back View of Engine Assembly



Side View of Engine Assembly

Drivetrain Placement



Back View of Engine Assembly



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Finished Gear Casing

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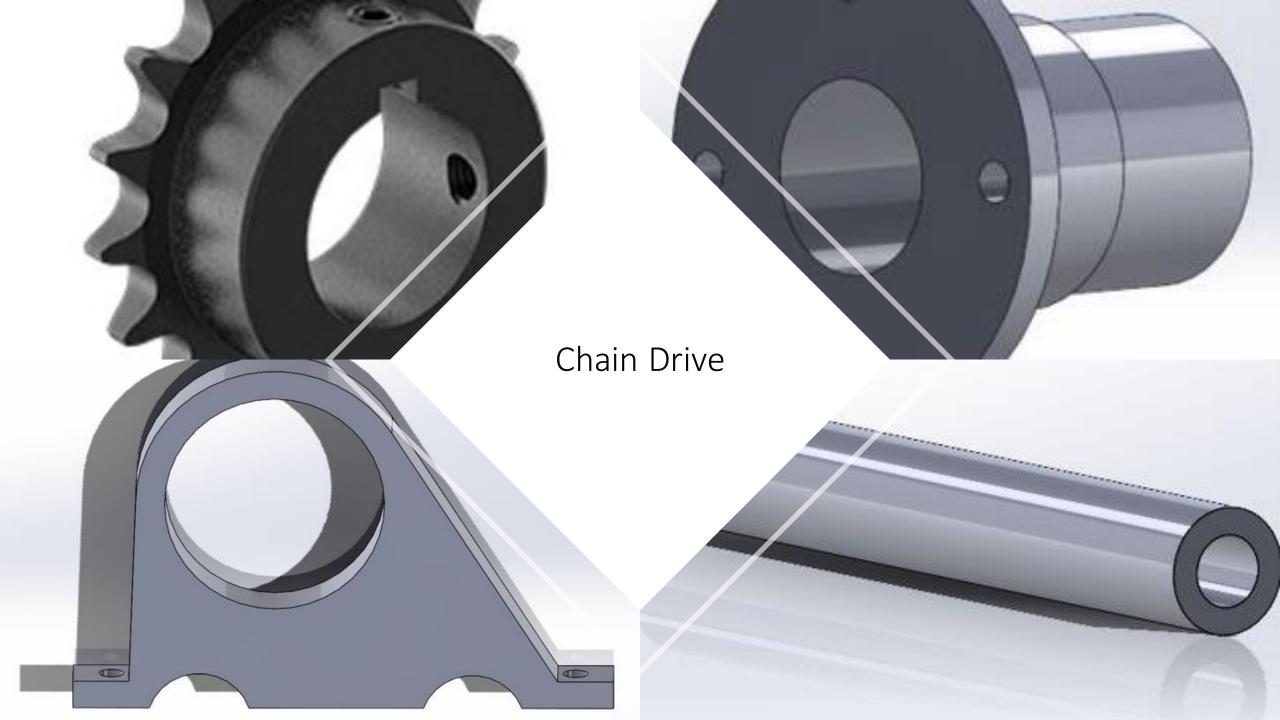
Drivetrain Placement

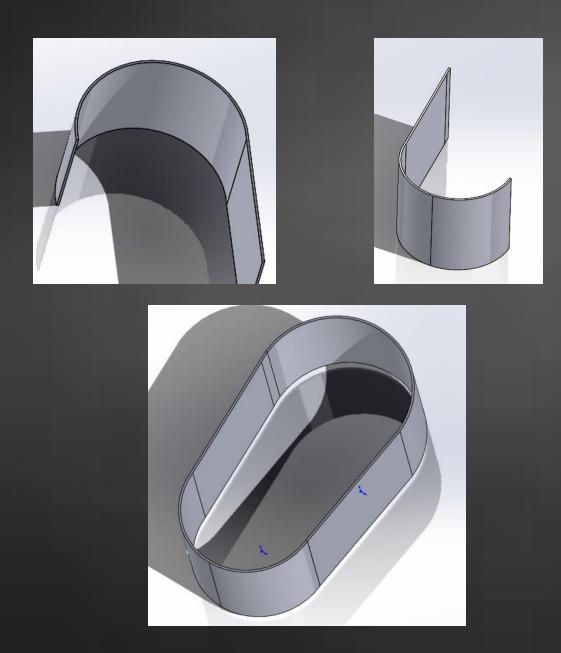




Back View of Engine Assembly Finished Gear Casing

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CVT Guard

- Finger protection will be laid over the sides, and cut out to be matched with some spare room
- With the spare room, perforated metal can be folded over to screw into the sides.

								K		
									It	em Owned or Purchased
Drivetrain										em Manufacturing Done
Priority No.	Part Name	Action Needed	Size/Dimensions	QTY	Price (Each)	Price (Total) Link to Website	Part No. (From Website)	Notes CAD done, will be ordered next week		en Manufacturing Done
1	1 Gear Casings (2 sides)	already owned Make in house	n/a 4 different sizes	2	0			CAD done, will be ordered next week CAD done, finalizing Wire EDM quote		
								Dimensions currently being updated to		
								the nearest millimeter to assure		em la Dreases
	3 Input Shaft	make in house	Length: TBD, D: 15mm	1	0			optimization	π	em In Progress
								Dimensions currently being updated to the nearest millimeter to assure		
4	4 Middle Shaft	make in house	Length: TBD, D: 15-20mm	1	0	0		optimization		
-								Dimensions currently being updated to		
								the nearest millimeter to assure		N
5	5 Output Shaft	Make in house	Length: TBD, D: 25mm	1	0	0		optimization	It	em Not Started
-										
						https://www.amazon.com/Pcs-608-2RS-Ball-Bearings/dp/B09PKD8QZZ/ref=asc_df_B09PKD8QZZ/?ta	-			
						hyprod-20&linkCode=df0&hvadid=564832768295&hvpos=&hvnetw=g&hvrand=1550805662038250 7&hvpone=&hvptwo=&hvqmt=&hvdev=c&hvdvcmdl=&hvlocint=&hvlocphy=1013406&hvtargid=pla			_	
	5 Gearbox Casing Bearings (Input)	Ordered	(8x22x7mm)	2	9	18 5667255021&psc=1	608-2RS		_	
	Gearbox Casing Bearings (Middle)		(8x22x7mm)	2	0	0 "" ""				
	B Gearbox Casing Bearings (Output)		(8x22x7mm)	2	0	0 ""				
9	O Gearbox Spacers	already owned	aluminum tubes	8	0	0 Aluminum in house			R	unning Total (\$)
								Dimensions currently being updated to		572.8
10	D Retaining Rings	already owned	Dia: 10-20mm	A	0			the nearest millimeter to assure optimization		572.0
	I Keyways		TBD	26		0		Might not use for the build		
										90% Purchased
										Jo / o I di chased
12	2 Keys	Make in house	TBD	26		0		Might not use for the build	-	170 (D 1)
								Finding best bolts and Nuts to use,		47% Built
13	3 Casing Bolts	Need to order	Dia: TBD	12	4	48 grab from copper mountain nut and bolt		research going on now.		
										150/ Agamplelad
										15% Assembled
	Contraction News	No. day and						Finding best bolts and Nuts to use,		
14	4 Casing Nuts	Need to order		12	6	72 grab from copper mountain nut and bolt		research going on now.	-	1000/ Design
15	5 Casing Washers	Need to order		12	6	72 grab from copper mountain nut and bolt				100% Design
16	Guard for Chain Drive (Sheet Metal	already owned	n/a	1		0				
	Sprockets	ordered	1/4	4				Currently working on CAD		
	B Throttle Cable	need to order	4ft or 48inches	1	50	50 https://www.summitracing.com/parts/csi-6004	CSI-6004	, , , , , , , , , , , , , , , , , , , ,		
						https://www.amazon.com/Pcs-608-2RS-Ball-Bearings/dp/B09PKD8QZZ/ref=asc_df_B09PKD8QZZ/?tz				
						hyprod-20&linkCode=df0&hvadid=564832768295&hvpos=&hvnetw=g&hvrand=1550805662038250				
	Bearings for axels	Need to order				7&hvpone=&hvptwo=&hvqmt=&hvdev=c&hvdvcmdl=&hvlocint=&hvlocphy=1013406&hvtargid=pla- 0 5667255021&psc=1	164 608-2RS			
	D Chains	Need to order	2 ft/chain	2		0	008-2KS			
	Belt	need to order	length 34.83", width 7/8"	2	39.95	79.9 https://www.gopowersports.com/40-series-drive-belt-203786/	203786	5		
2	Joen	incea to order	nongui 54.65 , wiuti 7/8	2	35.55	1212 http://www.Bohomerabourgroup/ac-acues-unive-peicz03/20/	200700			

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22 Chain Tightener 23 Guard for CVT (Aluminum/ 24 Metal Mesh for CVT Suard 25 External Kill Switch 26 Conspiri Kill Switch 22 Sheet metal for back plate 28 Lubriantion

								Key Item Owned or Purchased
21	Chain Links	need to order	Carbon Steel, 0.25 pitch 2	2 11	1	https://www.amazon.com/Roller-Chain-Connecting-Links-Pack/dp/B085FQ9P6F/ref=asc_df_B085FQ9P6F/?tag=hy prod-20&linkCode=df0&hvadid=459618092337&hvpos=&hvnetw=g&hvrand=3265920101474883529&hvpone=& hvptwo=&hvqmt=&hvdev=c&hvdvcmdl=&hvlocint=&hvlocphy=1013406&hvtargid=pla-945359385976&psc=1		Item Manufacturing Done Item In Progress
10						https://www.amazon.com/dp/B07GKXLYBS/ref=sspa_dk_detail_3?pd_rd_i=B07GKXLYBS&pd_rd_w=Yd fFF&content-id=amzn1.sym.88097cb9-5064-44ef-891b-abfacbc1c44b&pf_rd_p=88097cb9-5064-44ef-89 1b-abfacbc1c44b&pf_rd_r=DN24X03N03HTKZQ7QBCK&pd_rd_wg=wRDjx&pd_rd_r=d5340de9-5634-4 e84-9245-015d782bfd36&s=industrial&sp_csd=d2lkZ2V0TmFtZT1zcF9kZXRhaWw&spLa=ZW5jcnlwdG VkUXVhbGImaWVyPUEyS1RFRUpBSDBVTzhYJmVuY3J5cHRIZElkPUEwMDU2MzczMVA5M1VHR0Q 5TFhOQSZIbmNyeXB0ZWRBZElkPUEwNzY5NjA3MUYyMlpSMTZBUUYzSyZ3aWRnZXROYW1IPXNw		Item Not Started Running Total (\$) 572.8
		need to order already owned		2 36	12	X2RidGFpbCZhY3Rpb249Y2xpY2tSZWRpcmVjdCZkb05vdExvZ0NsaWNrPXRydWU&th=1	08DE-60-100	100% Purchased
		already owned		1	0			47% Built
			n/a 1	1 62.95	62.95	https://www.amazon.com/Ski-Doo-1994-1996-Snowmobile-27-0152-414612700/dp/B079FSJSWT	27-0152	15% Assembled
26	Cockpit Kill Switch	item owned	n/a 1	1 62.95	62.95	https://www.amazon.com/Ski-Doo-1994-1996-Snowmobile-27-0152-414612700/dp/B079FSJSWT	27-0152	100% Design
		already owned			0			
		already owned		1 13	13			
		already owned		4	0			
30/	Engine	owned	n/a 1	4	0			

Finish the second half of each gear box casing Manufac	Start and finish the belt protector for the CVT casing	Finish anything not finished Tuesday and Wednesday Assemble the gear box if stock and bearings arrive	Mountingday	Shafts can start Wednesday as we now have stock
Tuesday	Wednesday	Thursday	Friday	Wednesday

Manufacturing Progress -Gear Box

Gears = 100% done, Gear Casing
 = 100% done with bearings and
 bolts in casing





Manufacturing Progress - Chain Drive

- 1/8 Tabs Completed, other 7 will be completed, and welded onto frame on Wednesday March 15th
- CURRENT PROGRESS ON EVERYTHING: 47% done currently, 60% reached by the end of spring break.

