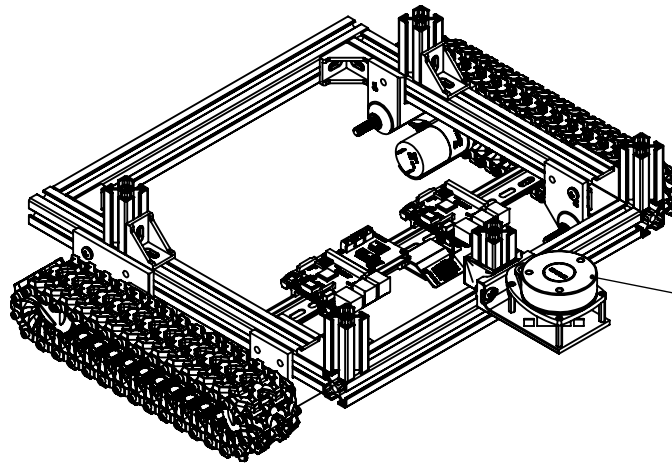


B

A

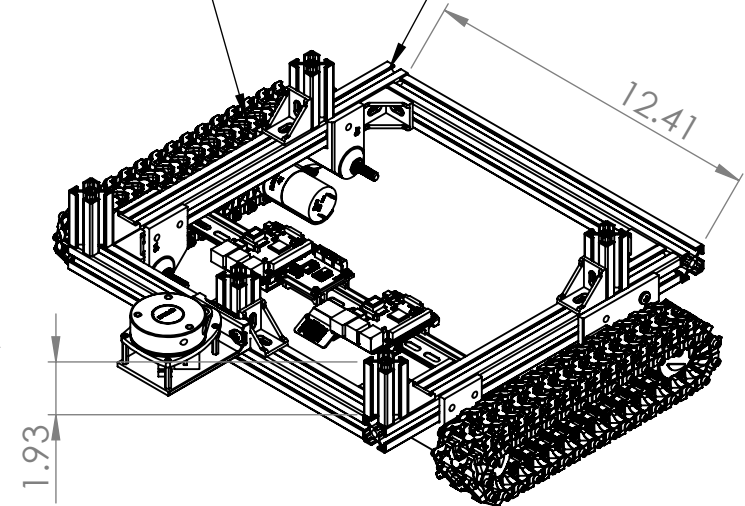
These do not include acrylic storage space (Sheet 4)



Slamtech RPLidar-A1

Tank Treads Track

T-Slotted Framing



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		TOLERANCES:
		FRACTIONAL $\pm$
		ANGULAR: MACH $\pm$ BEND $\pm$
		TWO PLACE DECIMAL $\pm$
		THREE PLACE DECIMAL $\pm$
		INTERPRET GEOMETRIC TOLERANCING PER:
		MATERIAL
NEXT ASSY	USED ON	FINISH
APPLICATION		DO NOT SCALE DRAWING

	NAME	DATE
DRAWN		4/3/25
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		
COMMENTS:		

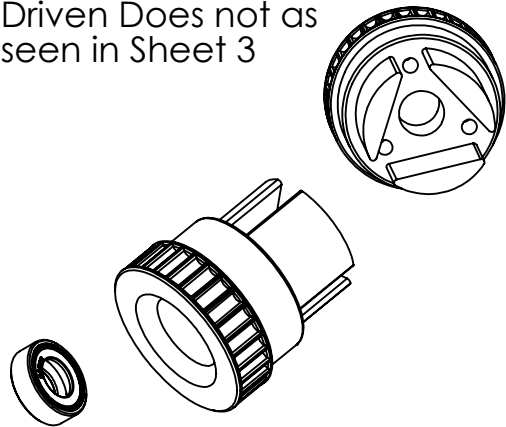
Talaria, Mail Delivery Robot, Dr. Porter		
TITLE:		
PRESTON Mec.Fab.& Assem.		
SIZE	DWG. NO.	REV
A	1	3
SCALE: 1:7	WEIGHT:	SHEET 1 OF 5

B

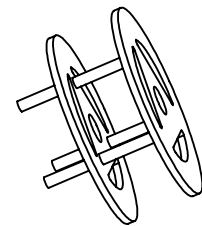
A

B

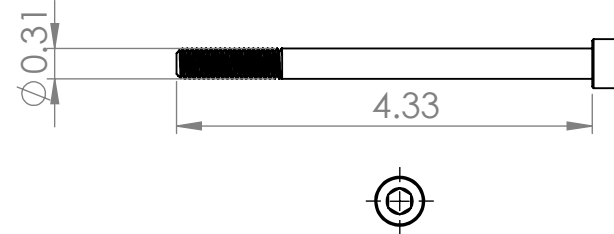
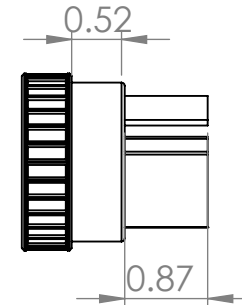
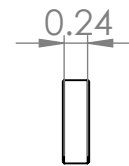
Driver Axle has  
Gear Indentions  
Driven Does not as  
seen in Sheet 3



Bearings slot into mount for  
freespinning around axle bolt

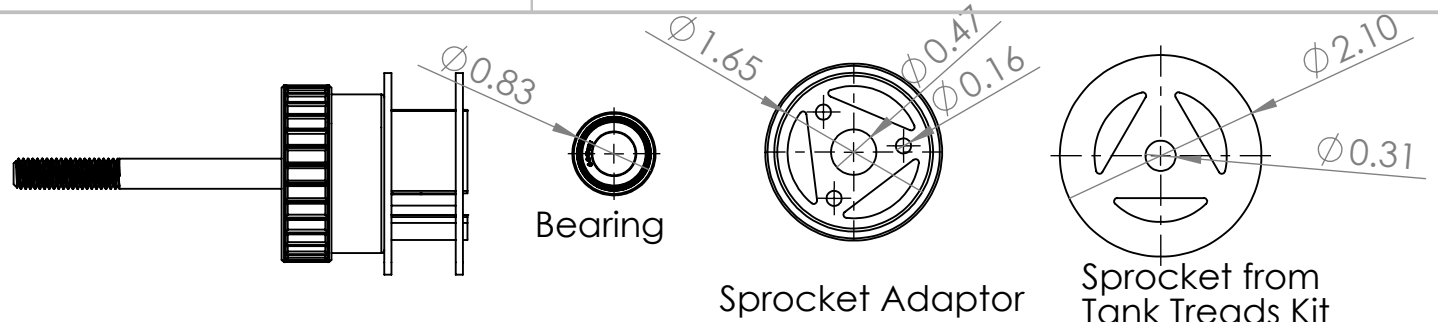


Bogies inset into Mount  
w/ M3 35mm screws into  
heat set inserts



2

1



B

A

A

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		FRACTIONAL $\pm$
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		TWO PLACE DECIMAL $\pm$
		THREE PLACE DECIMAL $\pm$
		INTERPRET GEOMETRIC TOLERANCING PER:
		MATERIAL
NEXT ASSY	USED ON	FINISH
APPLICATION		DO NOT SCALE DRAWING

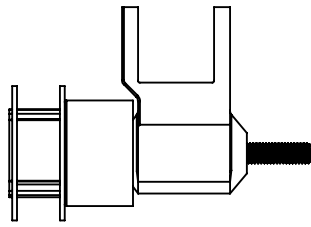
	NAME	DATE
DRAWN		
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		
COMMENTS:		

Mail Delivery Robot  
TITLE:  
Axle Assembly

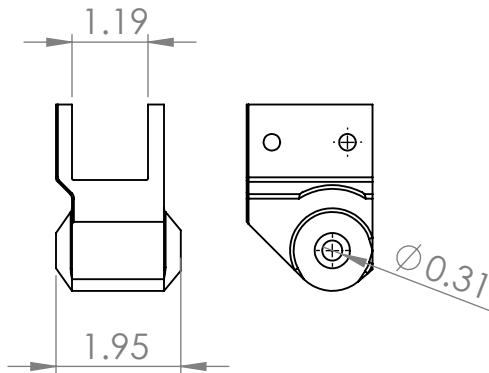
SIZE	DWG. NO.	REV
<b>A</b>	2	3
SCALE: 1:2	WEIGHT:	SHEET 2 OF 5

2

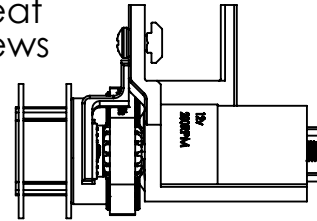
1



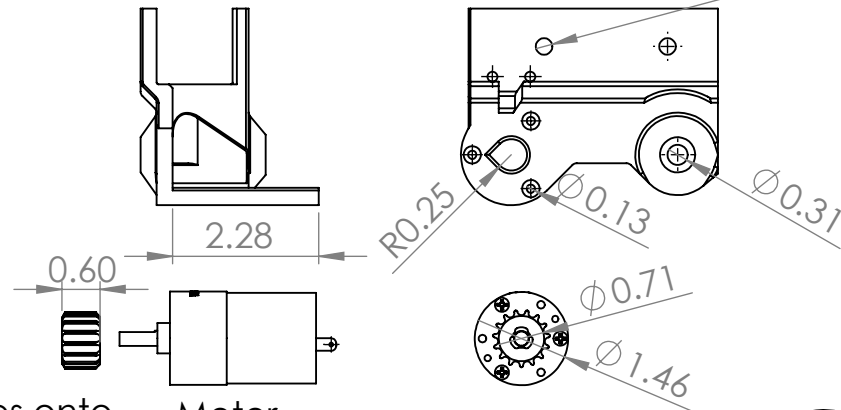
Driven Assembly



Encoder attached to mount with 2 heat set inserts and screws



Driver Assembly



Gear slides onto motor shaft w/ a flat keyway

Motor Attached to Mount w/ three screws of 0.13 diameter



245mm Timing Belt

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		TOLERANCES:	CHECKED			
		FRACTIONAL: ±	ENG APPR.			
		ANGULAR: MACH ± BEND ±	MFG APPR.			
		TWO PLACE DECIMAL ±	Q.A.			
		THREE PLACE DECIMAL ±	COMMENTS:			
		INTERPRET GEOMETRIC TOLERANCING PER:				
		MATERIAL				
NEXT ASSY	USED ON	FINISH				
APPLICATION		DO NOT SCALE DRAWING				

Mail Delivery Robot

TITLE:  
Motor Assembly

SIZE	DWG. NO.	REV
A	2	3
SCALE: 1:3	WEIGHT:	SHEET 3 OF 5

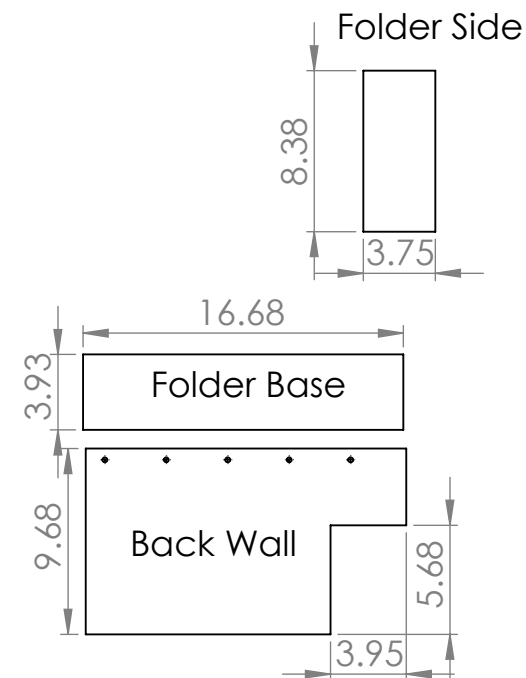
1



A

Technical drawing of a rectangular box with dimensions and labels:

- Top View:**
  - Overall width: 16.68
  - Overall height: 16.68
  - Left side wall thickness: 8.50
  - Right side wall thickness: 3.48
  - Bottom wall thickness: 3.00
  - Labels: "Vertical Wall" (pointing to the right wall), "Package Base" (pointing to the bottom wall).
  - Feature: A circular hole with diameter  $\varnothing 1.50$  is located on the right wall.
- Front View:**
  - Overall width: 16.68
  - Overall height: 11.42
  - Bottom wall thickness: 9.68
  - Top wall thickness: 7.51
  - Labels: "Side Wall" (pointing to the left wall), "Front Wall" (pointing to the bottom wall).



B

A

**SOLIDWORKS Educational Product. For Instructional Use Only.**

2

1

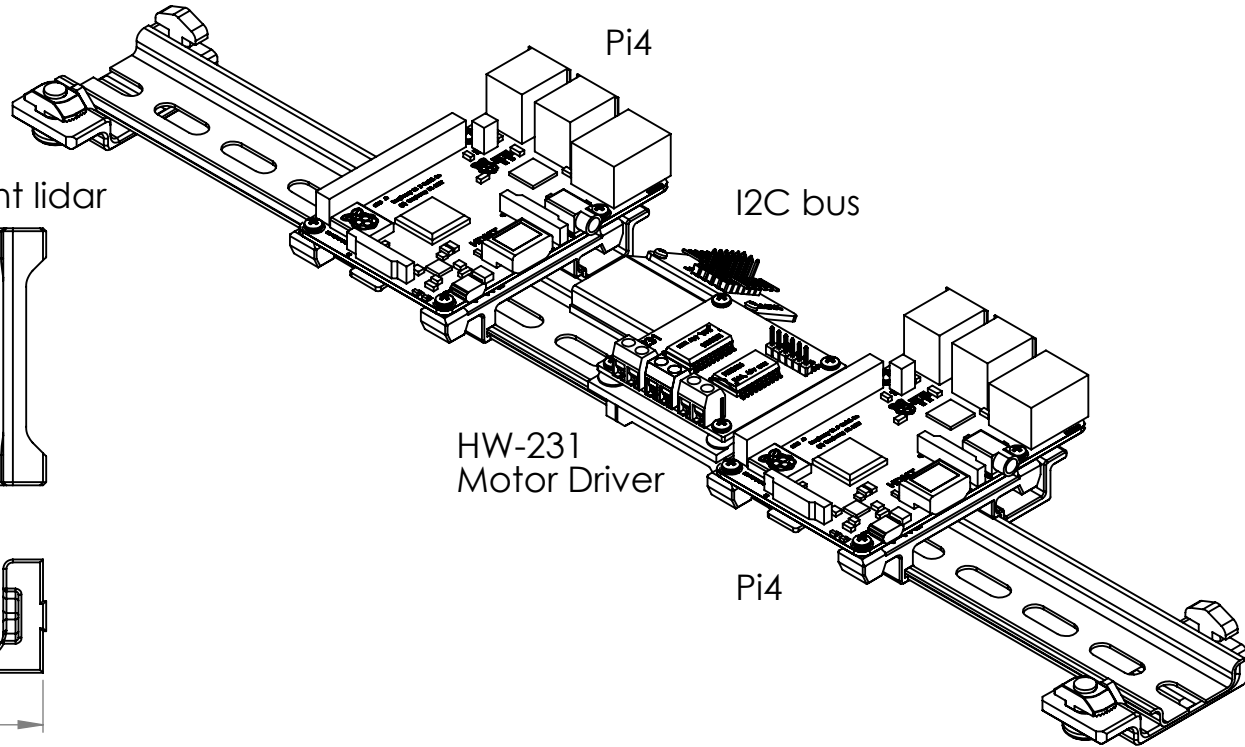
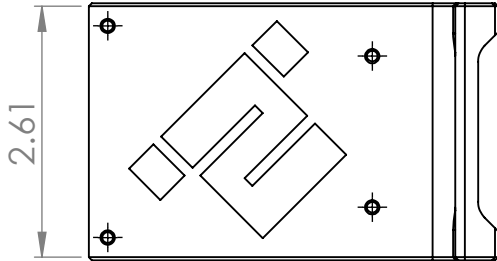
2

1

B

B

Lidar Mount,  
4 screw holes to mount lidar



A

A

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		DIMENSIONS ARE IN INCHES	DRAWN		
		TOLERANCES:	CHECKED		
		FRACTIONAL $\pm$	ENG APPR.		
		ANGULAR: MACH $\pm$ BEND $\pm$	MFG APPR.		
		TWO PLACE DECIMAL $\pm$	Q.A.		
		THREE PLACE DECIMAL $\pm$	COMMENTS:		
		INTERPRET GEOMETRIC TOLERANCING PER:			
		MATERIAL			
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			

Mail Delivery Robot

TITLE:

DIN Rail  
Electronics

SIZE	DWG. NO.	REV
<b>A</b>	<b>5</b>	<b>3</b>
SCALE: 1:2	WEIGHT:	SHEET 5 OF 5

2

1