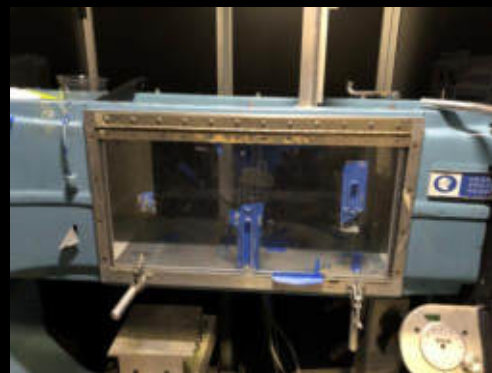
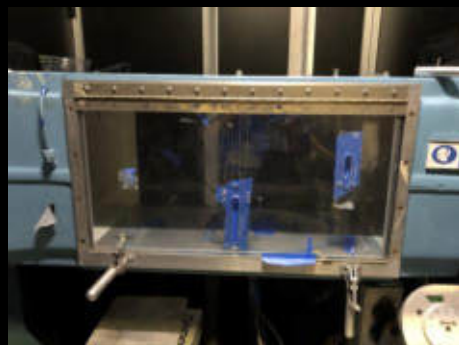
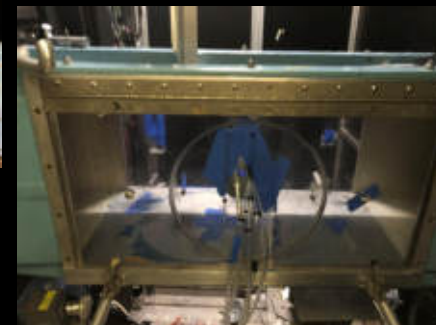
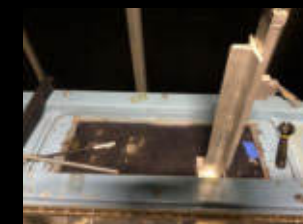
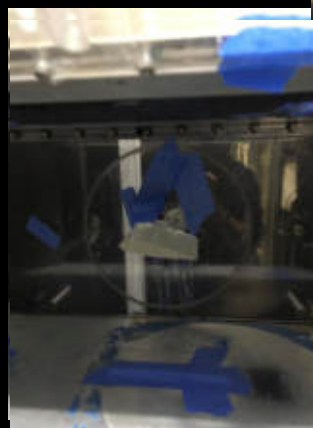
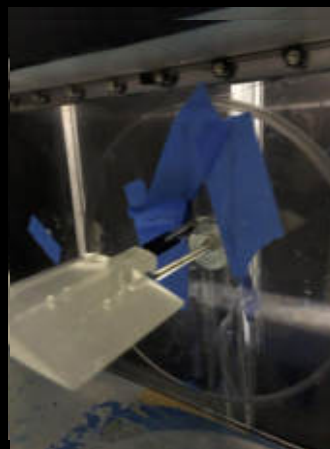
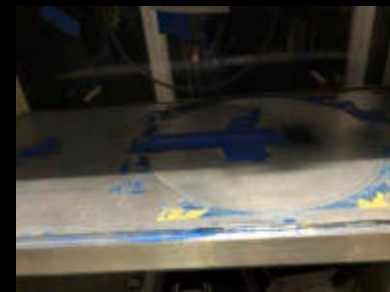
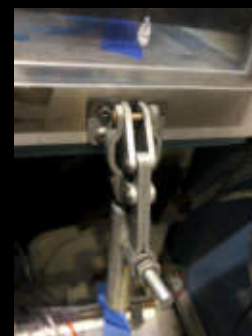
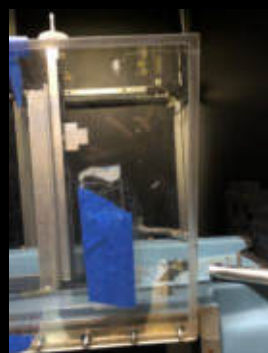


Wind Tunnel Testing Chamber Design

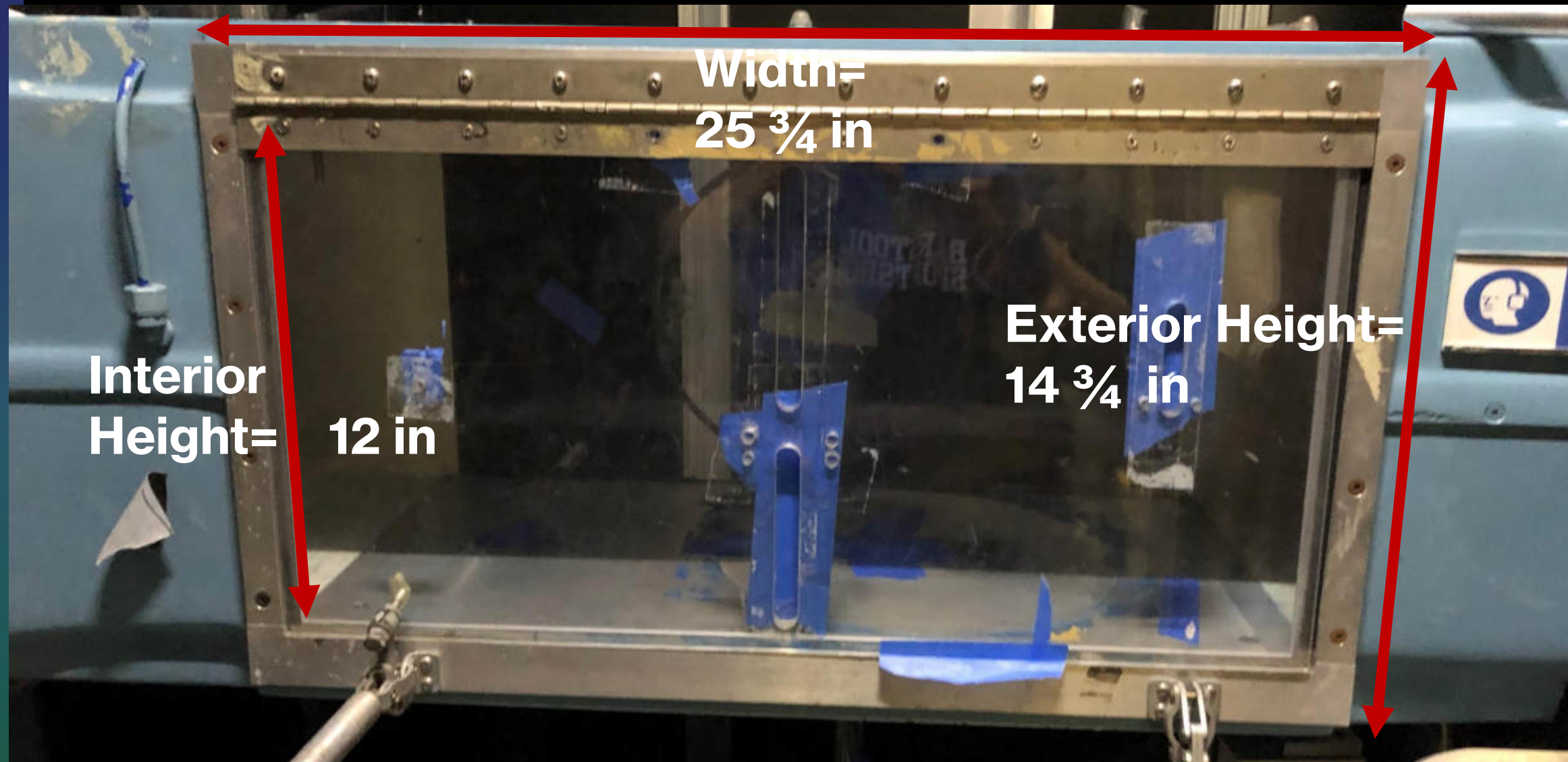
Petros Sklavounos







1. Current Dimensions

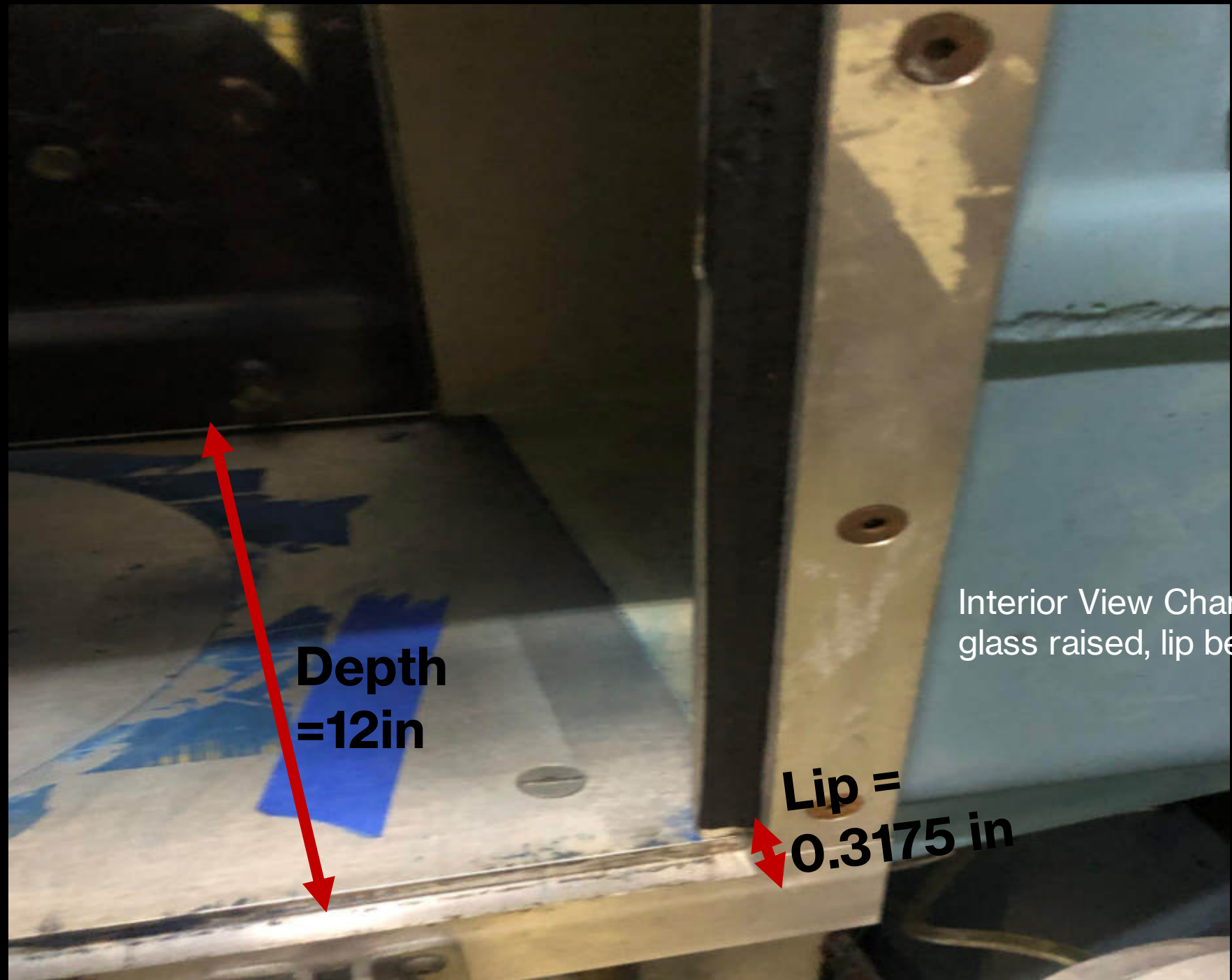


Width=
 $25 \frac{3}{4}$ in

Exterior Height=
 $14 \frac{3}{4}$ in

Interior
Height=
12 in

Front View Chamber



**Depth
=12in**

**Lip =
0.3175 in**

Interior View Chamber, sight
glass raised, lip being shown

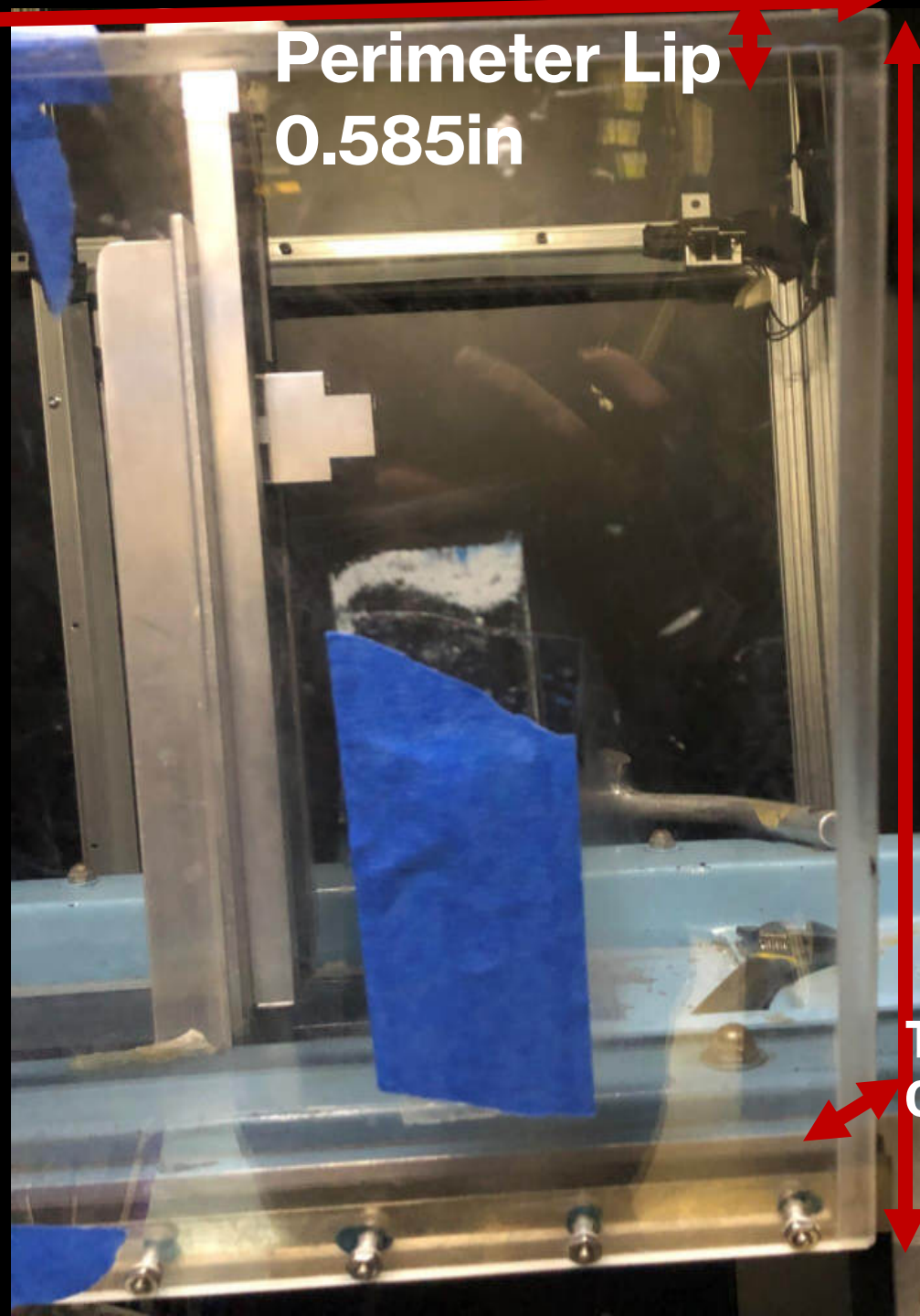
Width= 23 7/8 in

Plastic viewing glass

**Perimeter Lip
0.585in**

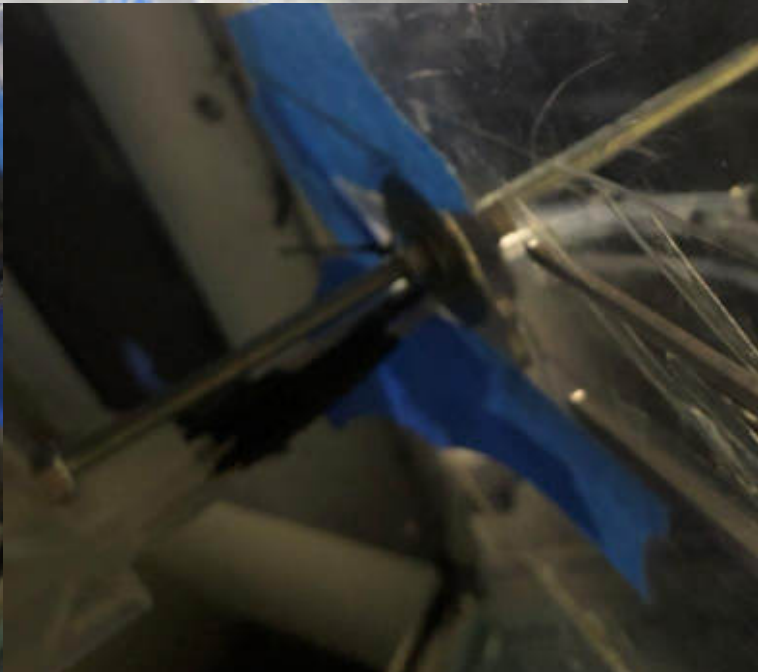
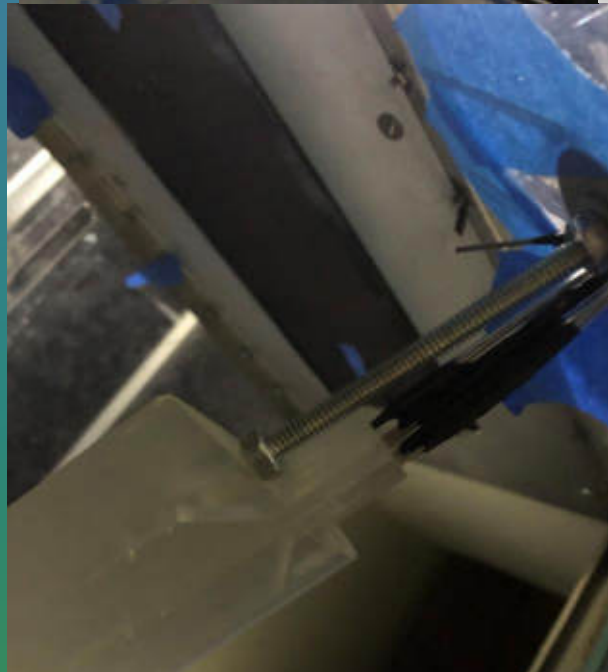
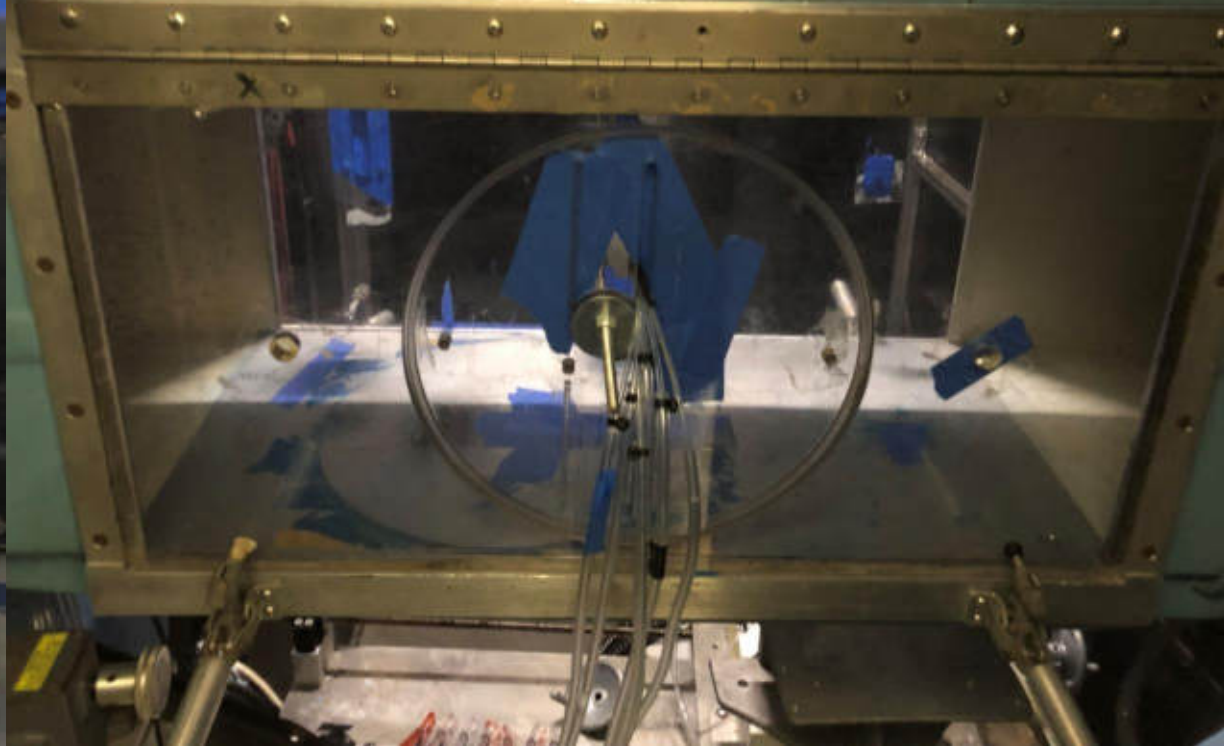
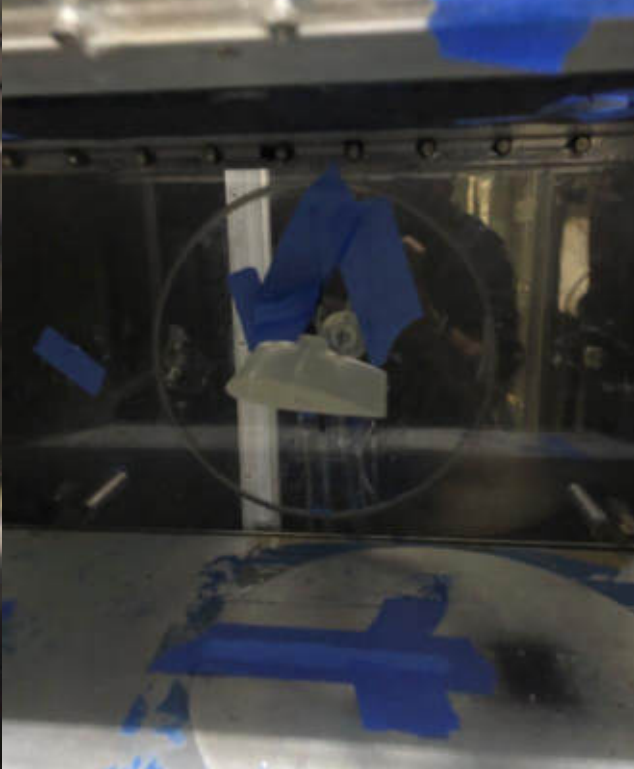
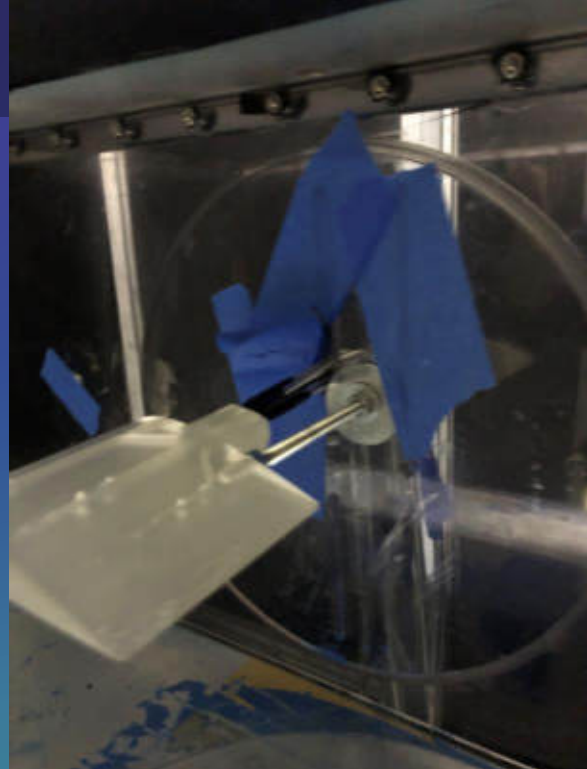
**Length =
12 3/8in**

**Thickness =
0.2548 in**





2. Current Mounting

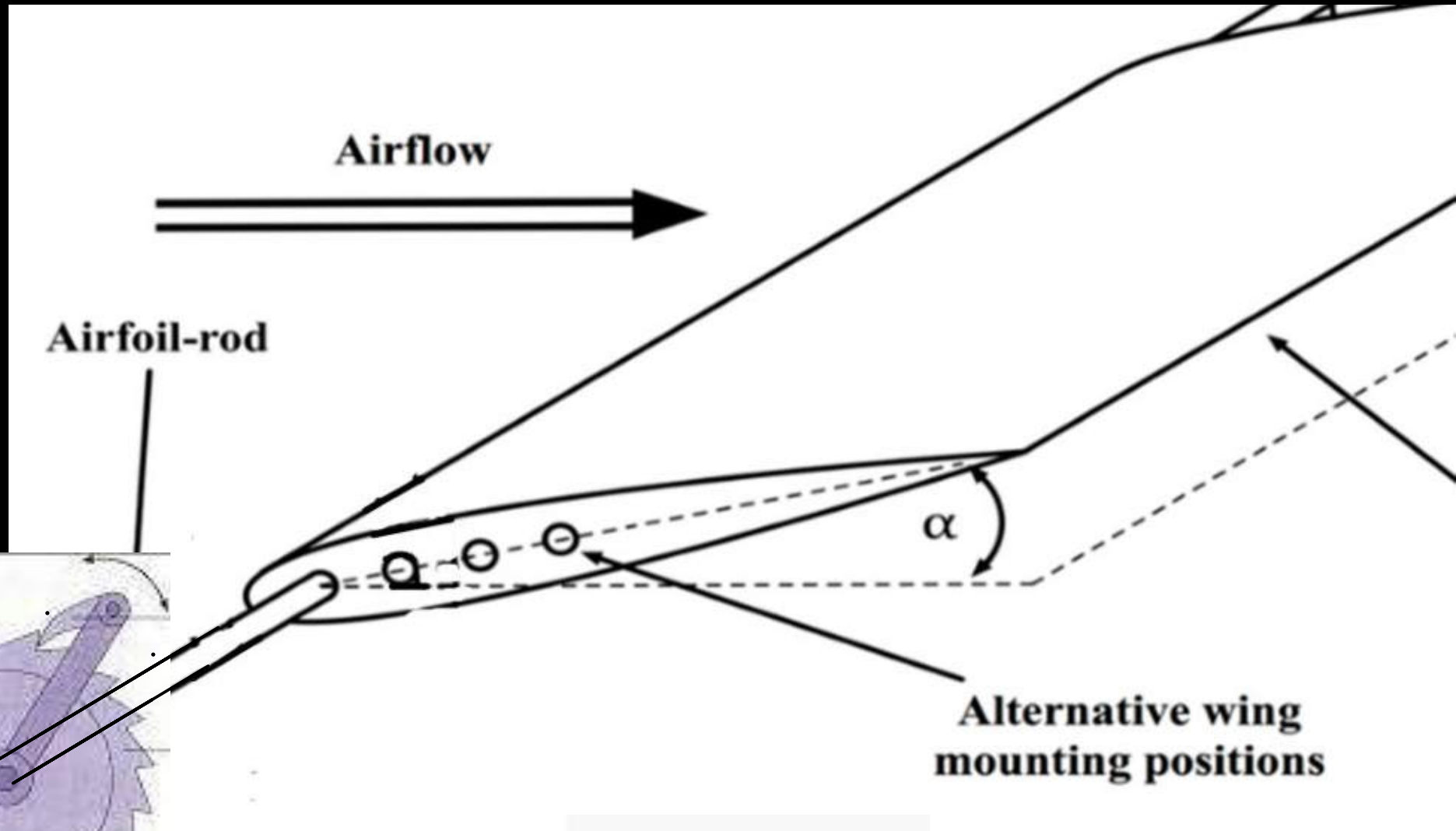
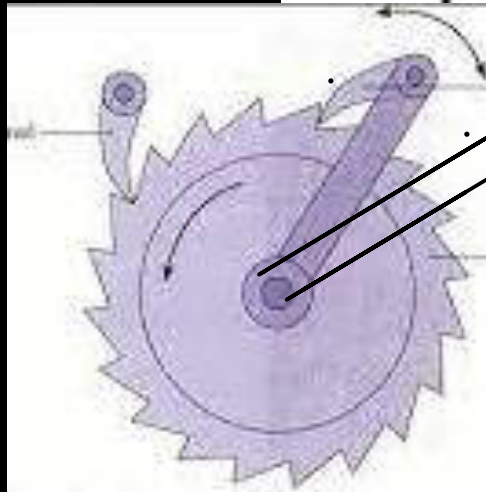


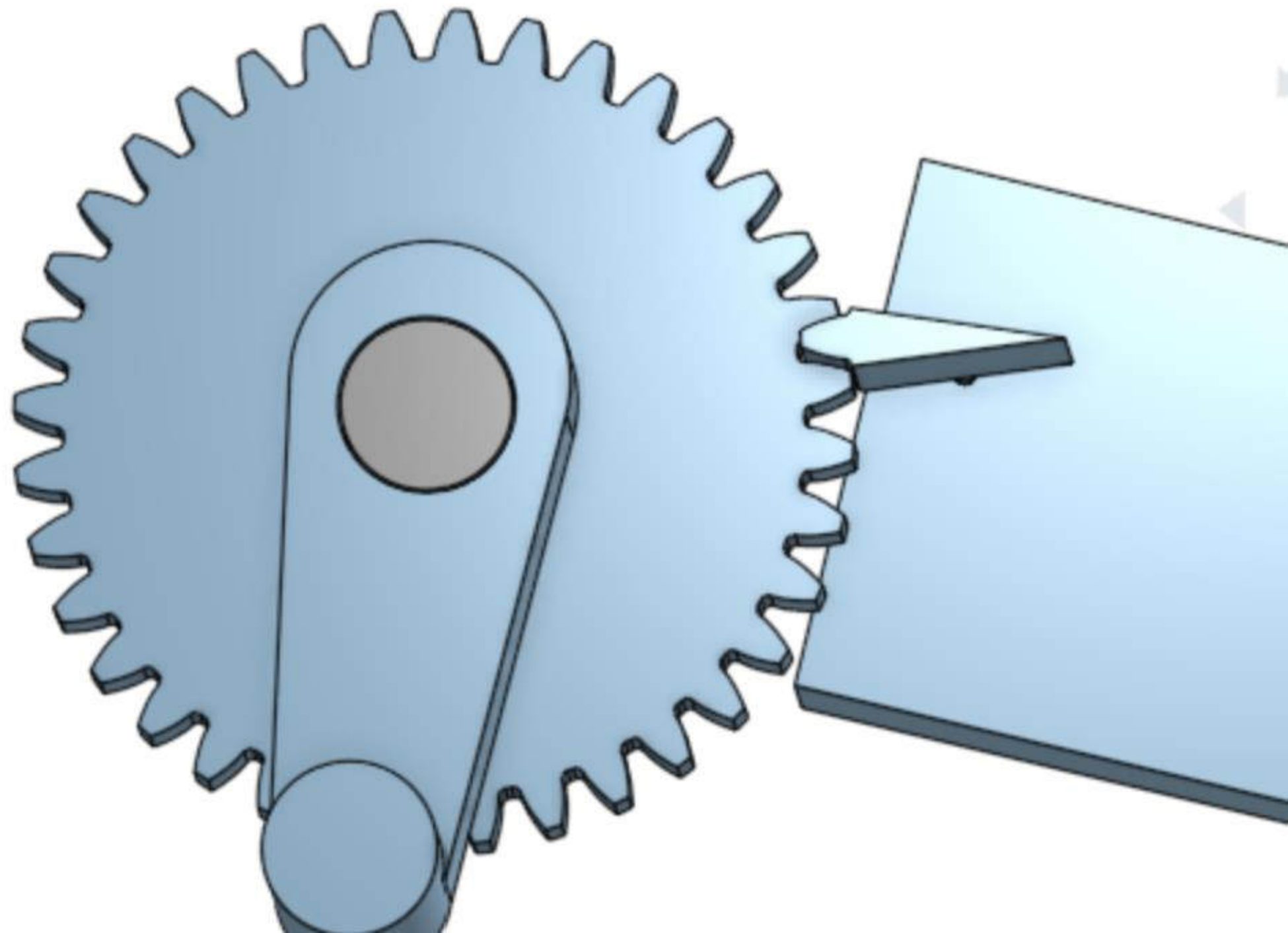


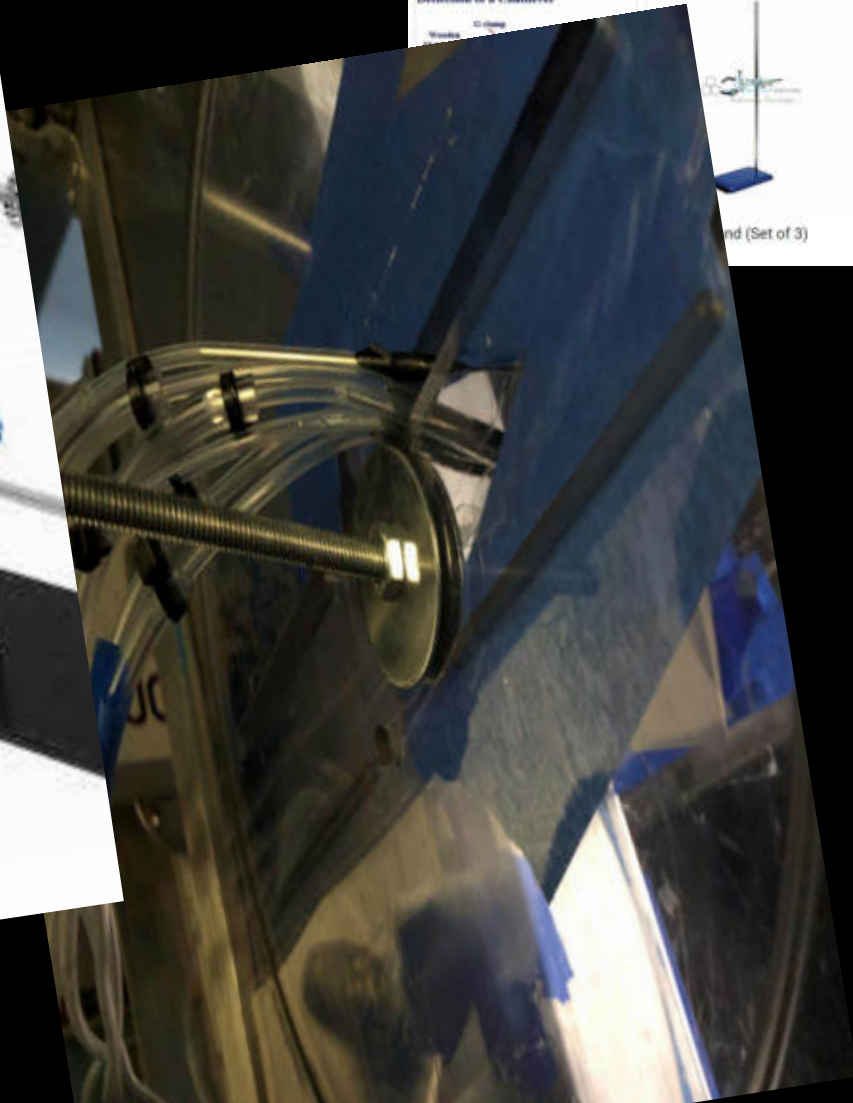
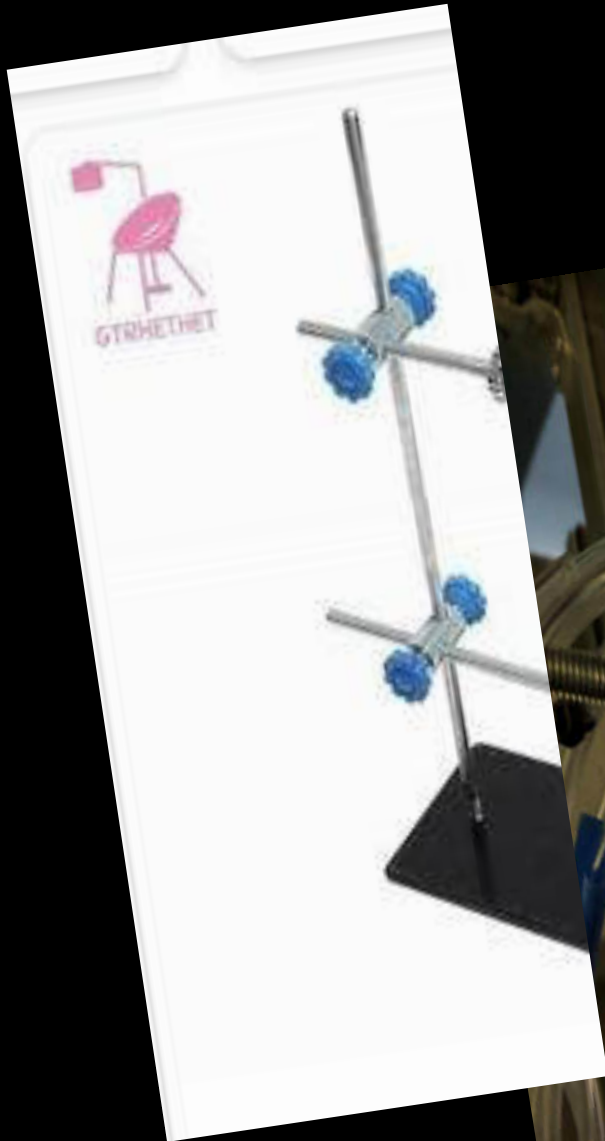
3. Mounting Ideas

Ratchet and spawl
to allow for angle
iteration without
touching the
mounted air foil.

Allows for angle
measurement (each
tooth is a certain
fraction of a circle)
-prevents movement
in the opposite
direction







Complete Retort Stand - Grey/Blue | Buy online...



Complete Retort Stand - Grey/BL...



flamesofchemi...



Complete Retort Stand - Grey/Blue | Buy online - Futura...



Retort Stand Manufacturer, Wholesale Retor...



Retort Stand Kit - Haines Educational



Acid and Alkali Mind42

Deflection of a Cantilever

Wendy G. King



nd (Set of 3)



1Pcs 30Cm High Retort Stand with Clamp Clip La...



RETORT STAND Manufacturer, Supplier



p11



RETORT STAND 20 X 14 BASE 60CM ROD - ...

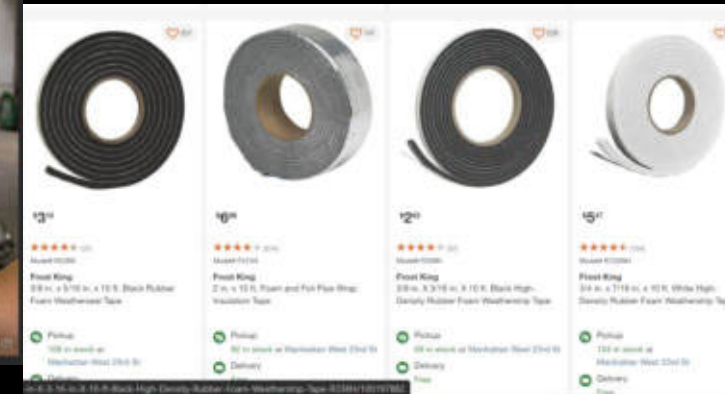
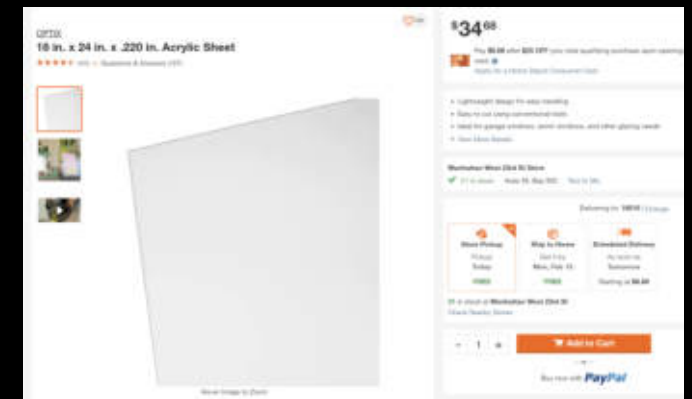


4. Parts List

Brainstorm ideas session

Plexiglass (Acrylic sheet) 18x 24x 0.220 in
from home depot for example (thickness a bit
bigger)

Insulation: gun or tape or rubber



Proposed List

	Bill of materials						
	Quantity of air chambers:		1				
Date	Material	Quantity	Dimensions	Thicknenss	Unit Price	Total Price	Link
4/7/2023	aluminium sheet	1	12" Wx 24" L	0.19"	\$ 85.05	\$ 85.05	https://www.mcmaster.com/catalog/89015K32
4/8/2023	Plexiglass	2	24" W x 12" L	15/64"	\$ 26.68	\$ 53.36	https://www.mcmaster.com/catalog/8560K222
4/9/2023	Vertical T-slots+shorter h	6	12"L x 1.0"W	1"	\$ 12.17	\$ 73.02	https://www.mcmaster.com/catalog/47065T101
4/10/2023	LongHorizontal T-slots	4	24 "L x 1.0" W	1"	\$ 27.44	\$ 109.76	McMaster-Carr
4/11/2023	Hinges+mounting	4	1" high rail		\$ 19.39	\$ 77.56	https://www.mcmaster.com/47065T347/
4/12/2023	Toggle clamp with Handle	4			\$ 63.93	\$ 255.72	https://www.mcmaster.com/catalog/6812N158
4/13/2023	Low carbon steel sheet to	1	24x24		\$ 73.72	\$ 73.72	https://www.mcmaster.com/catalog/6544K62
	T-Slotted FraminAngle						
4/14/2023	Bracket for 1" High Rail	4 for 1"			\$ 17.05	\$ 68.20	https://www.mcmaster.com/catalog/3136N157
4/15/2023	interior l bracket	4 for 1"			\$ 7.92	\$ 31.68	https://www.mcmaster.com/catalog/47065T236
					Total price	\$ 828.07	
					estimate with tax	\$ 901.49	
4/13/2023	interior l bracket	4 for 1"			\$ 7.92	\$ 31.68	https://www.mcmaster.com/catalog/47065T236