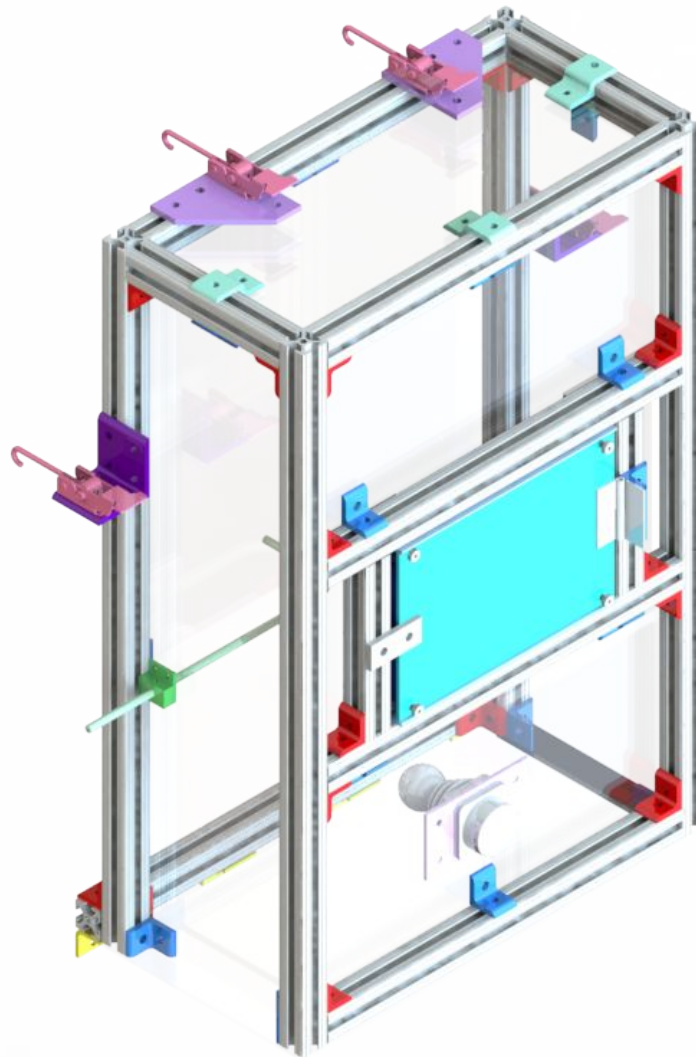


# Monkey ICTS

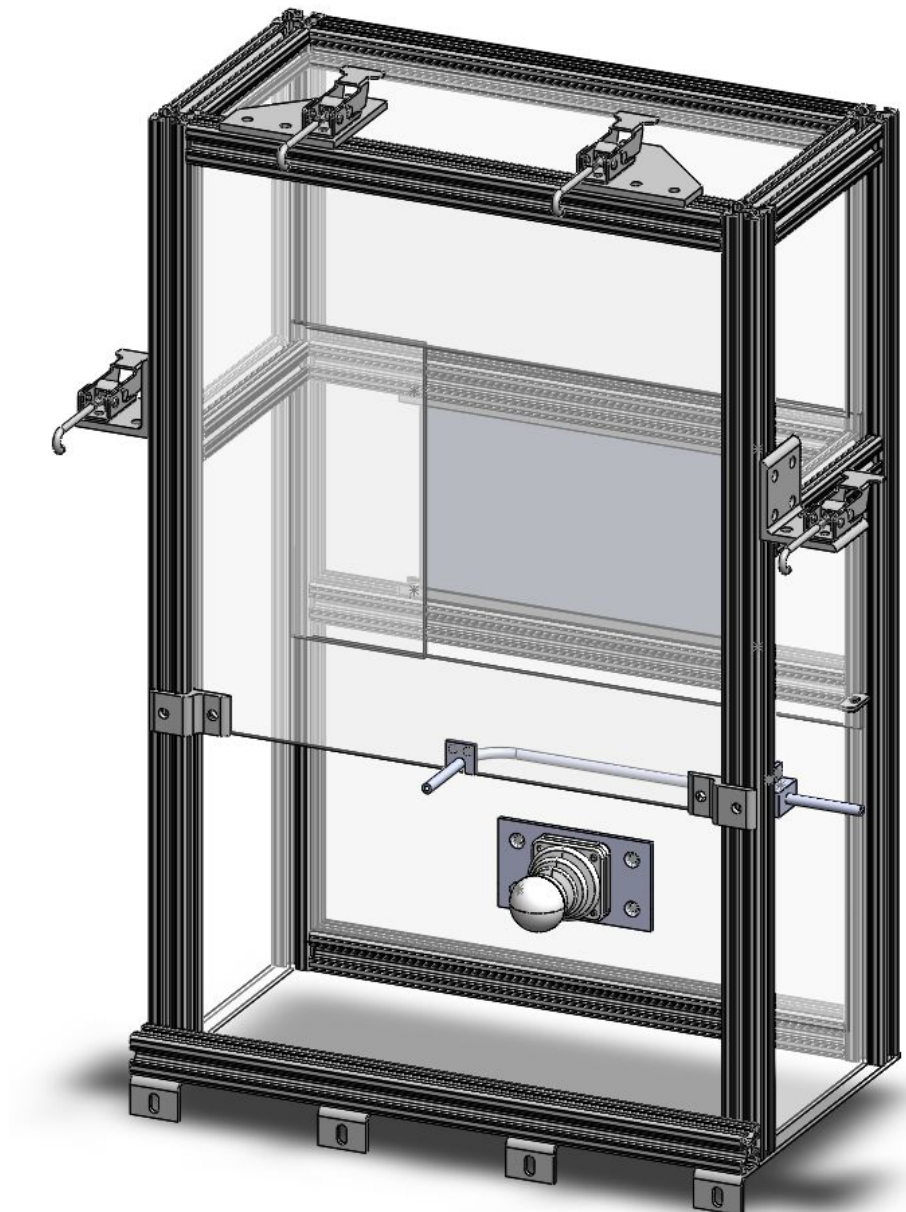
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James Wong  
7/24/2021



# Overview

- Materials
- Attachment Method
- Reward System
- Screen Operation
- Optional Joystick



# Materials

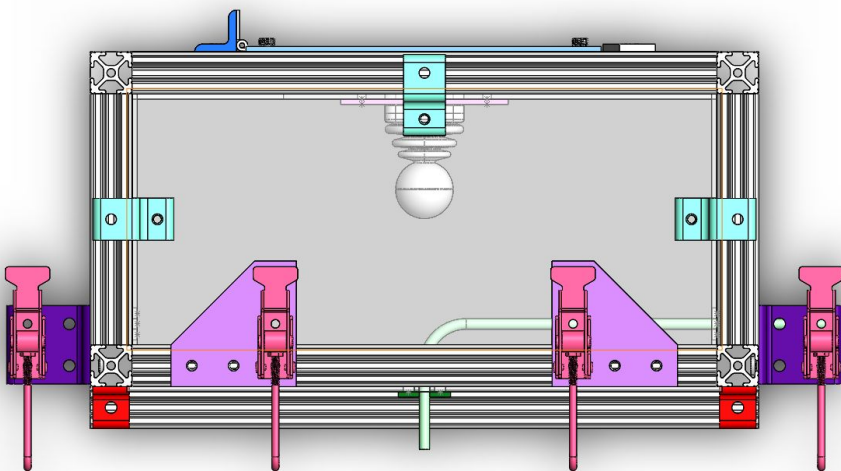
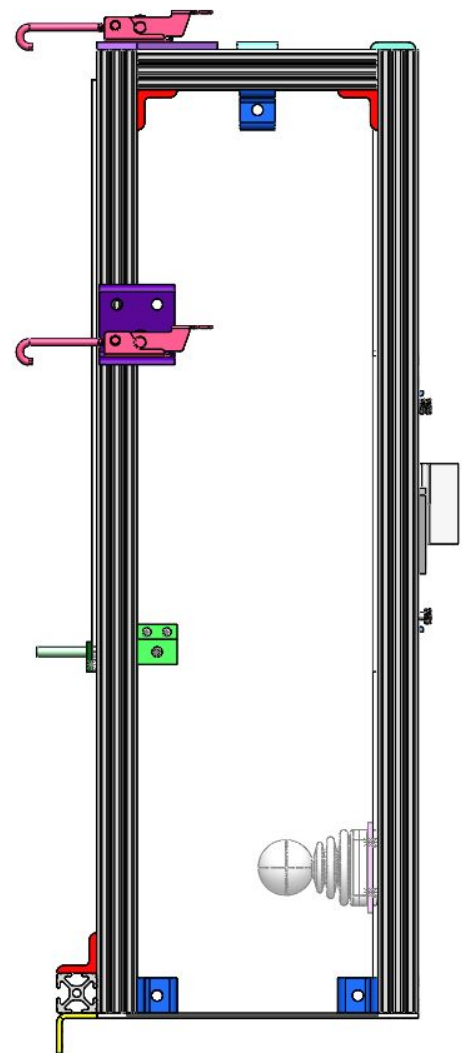
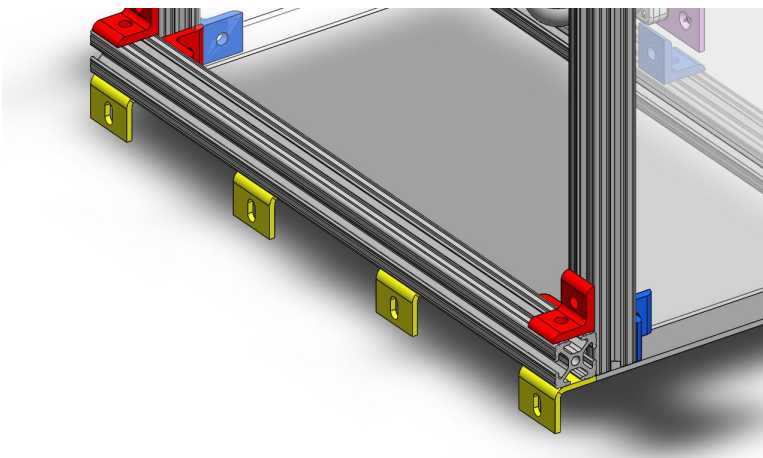
- Framing made of 8020
- Enclosed on all sides by 1/8" polycarbonate (or acrylic)
- Some custom machined parts for reward system, tablet holder

BOM outlined below

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	47065T209_ALUMINUM T-SLOTTED FRAMING EXTRUSION	Depth (6")	4
2	47065T209_ALUMINUM T-SLOTTED FRAMING EXTRUSION	Front Wide (16")	1
3	47065T209_ALUMINUM T-SLOTTED FRAMING EXTRUSION	Wide (14")	5
4	47065T209_ALUMINUM T-SLOTTED FRAMING EXTRUSION	Height (24")	4
5	2313N48	Corner Machine Bracket Bottom Lips	4
6	11605A220_ADJUSTABLE-GRIP DRAW LATCH	Adjustable-Grip Draw Latch	4
7	47065T253	Vertical Latch Bracket	2
8	47065T905_I-SLOTTED FRAMING	T-Slotted Framing End-Feed Single Nut	8
9	47065T195	Top Polycarb Framing Bracket	3
10	Screen	Tablet	1
11	HE2-23-x-A	Joystick	1
12	Joystick Mount	6061 Aluminum (1/8"x4"x6")	1
13	47065T267	Horizontal Latch Bracket	2
14	Polycarb (Tall Vertical)	~7"x24"	2
15	Polycarb (Rear Bottom)	~8"x15"	1
16	Polycarb (Bottom)	~8"x16"	1
17	Polycarb (Screen Sides)	~8"x3.5"	2
18	Polycarb (Bottom)	~14"x16"	1
19	Polycarb (Top)	~15"x7"	1
20	Polycarb (Rear Top)	~7"x15"	1
21	Back	6061 Aluminum (1/8"x8.5"x6")	1
22	8982K281	Multipurpose 6061 Aluminum 90 Degree Angle	2
23	1151A62_SURFACE-MOUNT LIFT-OFF HINGES WITH HOLES	Lift Off Hinge	2
24	straw	Aluminum Hollow Tube OD 1/4"	1
25	Straw Mount A	6061 Aluminum (0.5"x1"x1")	1
26	Straw Mount B	6061 Aluminum (1/8"x3/4"x1.25")	1
27	92952A220	Thumb Shoulder Screws	4
28	47065T255	LHS Lock	1
29	47065T236	8020 1x1 Corner Brackets	20
30	47065T236_ALUMINUM T-SLOTTED FRAMING EXTRUSION	Custom Tapped Angles	17

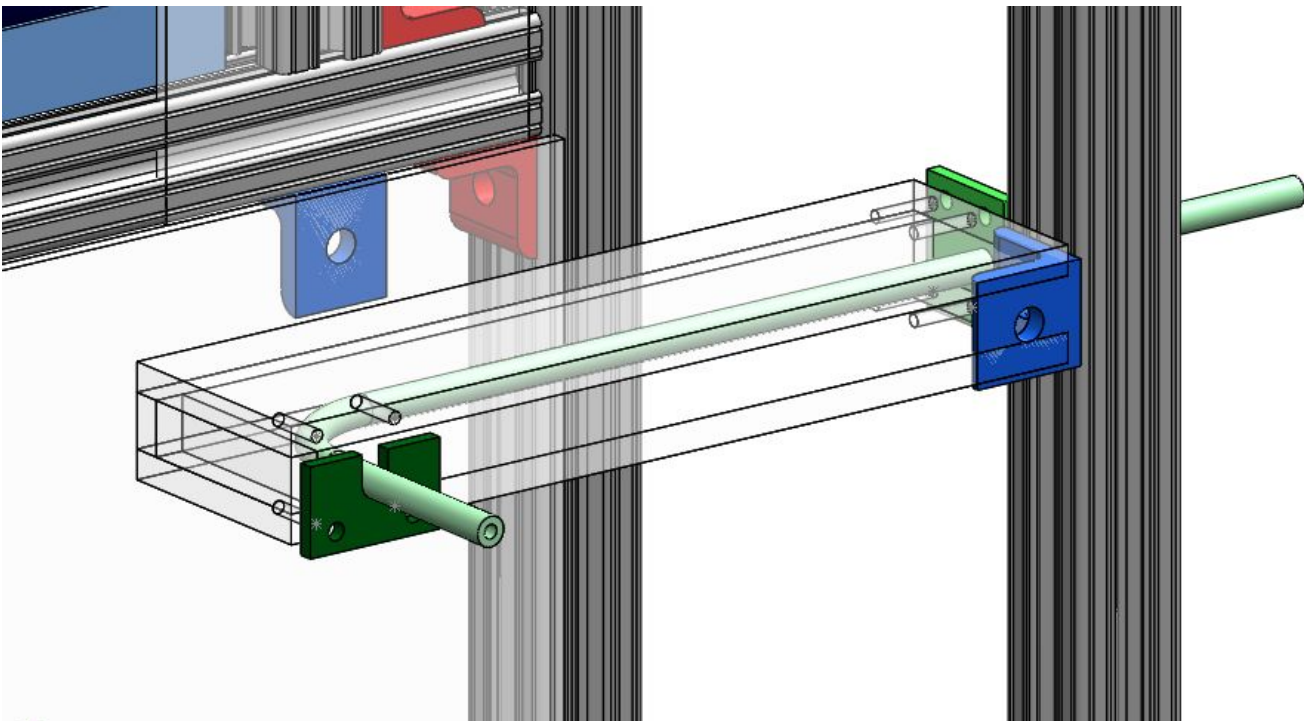
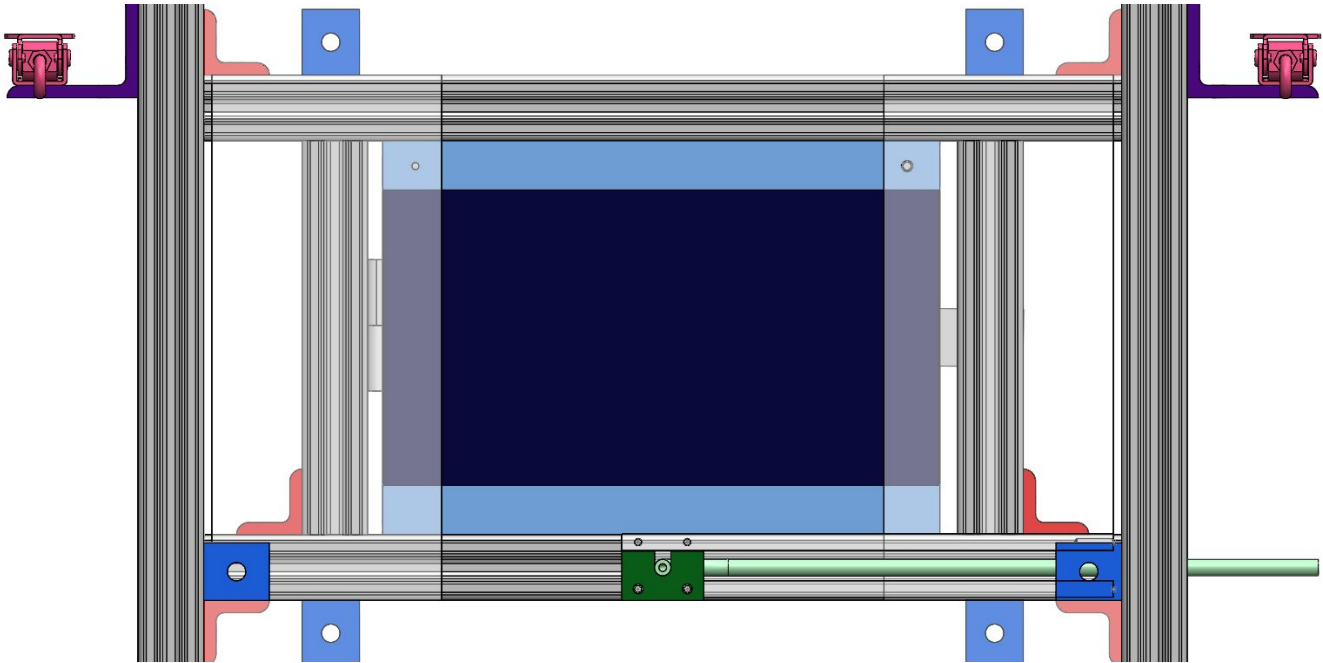
# Attachment Method

- Weight is carried primarily along bottom brackets (yellow)
- Latches (pink) provide additional support and contacts to the cage
- Adjustment to latches is available in vertical (dark purple) and horizontal (light purple) to accommodate different cage sizes



# Reward System

- Sits centered in front of screen
- Enclosed in its own box

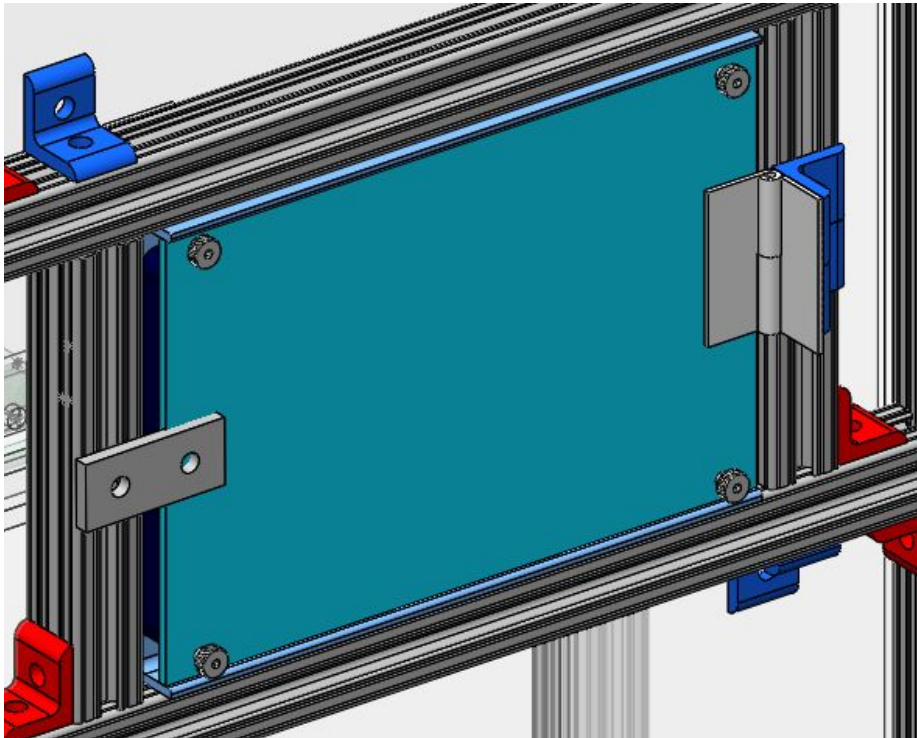
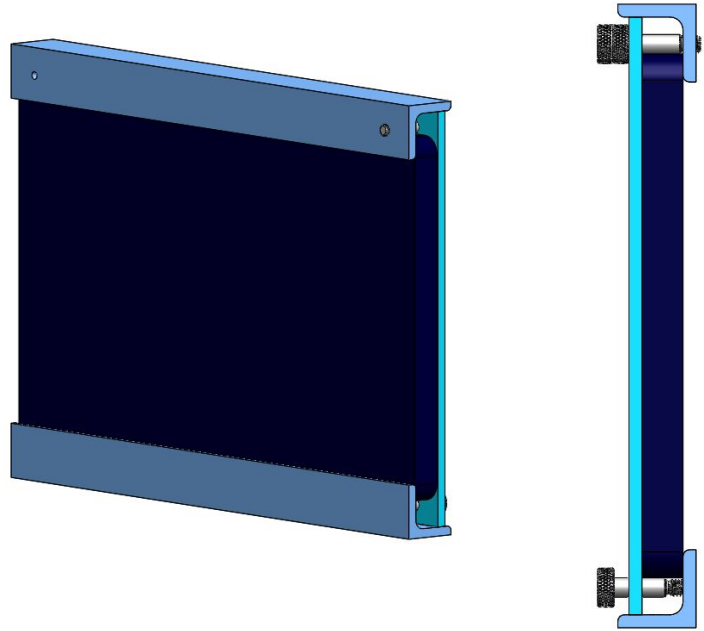




# Screen Operation

Screen sits between L bracket and aluminum back plate

Tablet will be sandwiched between these components -- adjusted with thumb screws



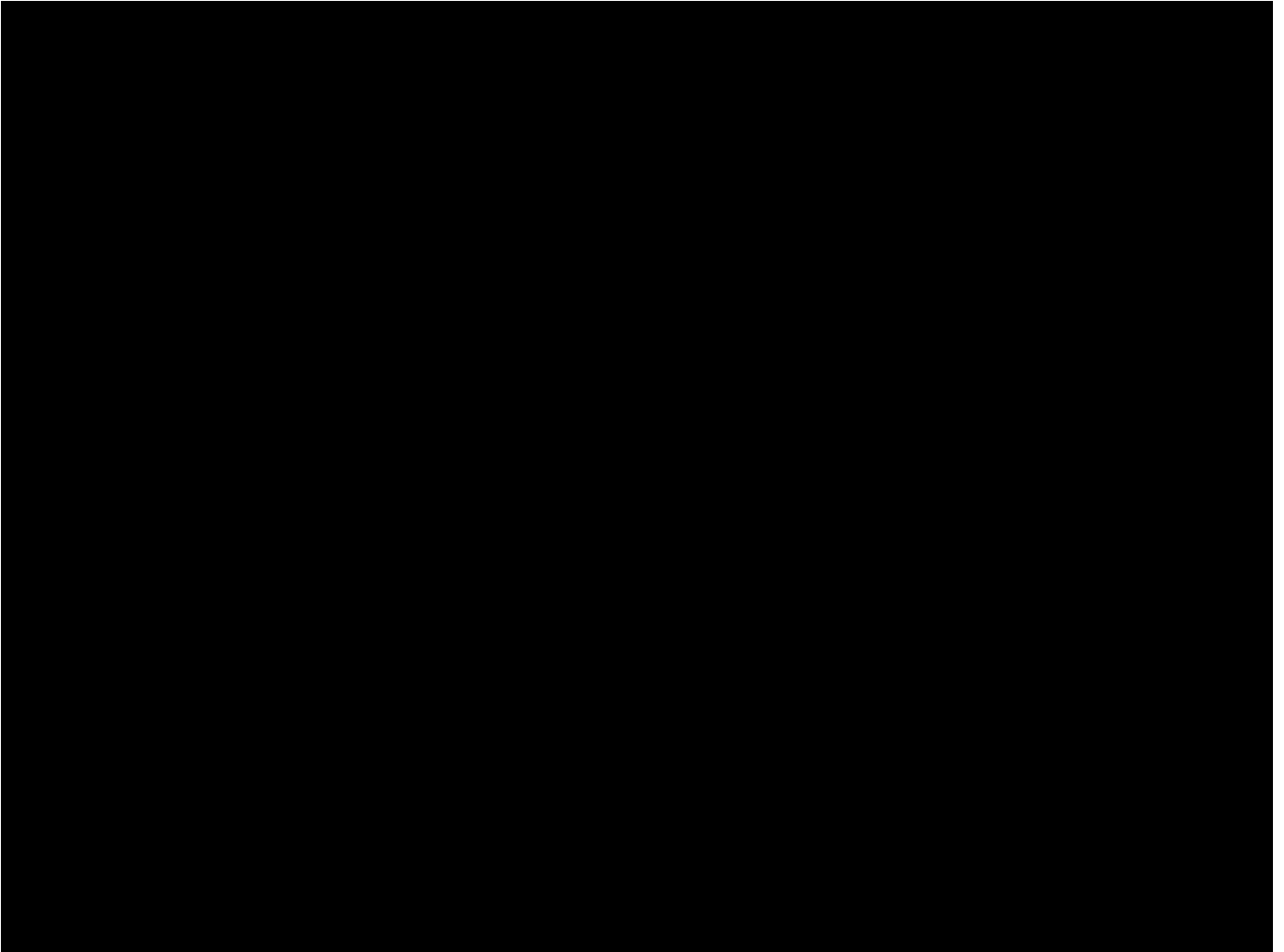
The aluminum back plate attaches to the 8020 structure with a lift-off hinge

This allows the tablet to easily be removed as a unit, transferred to another module, or allow us to mount other items via the hinge

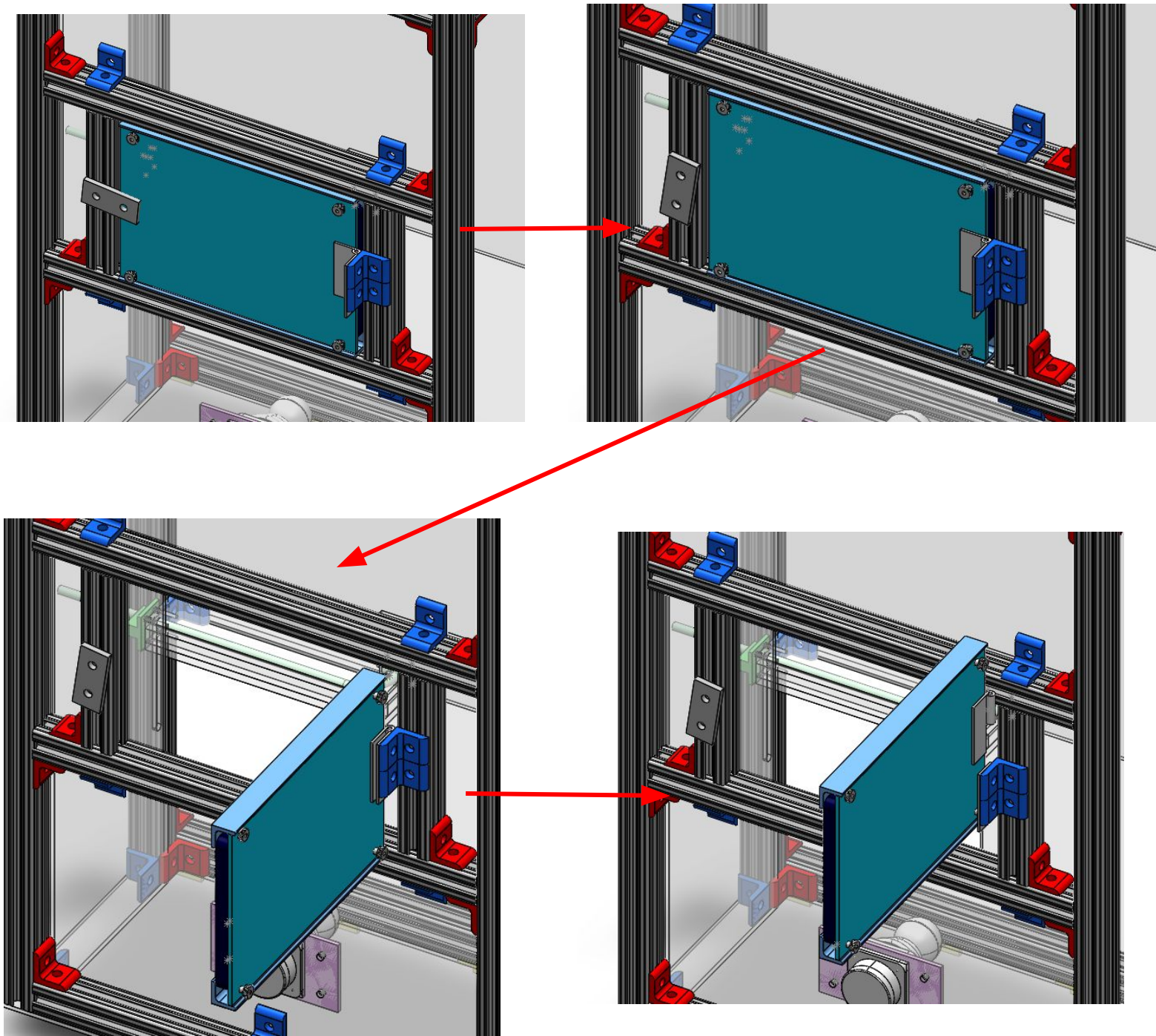
# Screen Operation

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Click for animation



# Screen Operation





# Optional Joystick

A joystick can be attached to the rear panel with a custom mounting plate

However, a blank plate can be used as well if the joystick is not desired

