List down parts and also where to buy them

Potentiometer, microprocessor, metals/materials for case, arm, etc

Material choices: after Wednesday’s meeting

Springs

In assignment: justify with text

Questions for TEAM Lab meeting:

What materials should be used for the housing and arm? Could they be the same material? Thinking aluminum

* 6061 alloys for aluminum could work
* Gotta be mindful of what machines we’re using, for example, aluminum HAS to be machined
* A variety of materials should probably be used
  + Sheet cut stainless steel, 3D printed, and aluminum in the optimal parts
  + We will need weird parts for the interior anyway

What parts could be 3d printed for rapid prototyping?

* The case and arms could be done with PLA
* Interior would likely be normal stuff

Would it be possible to utilize the rotation about the arm joint with a rotational

potentiometer? How about using a slide inside the main housing?

* Rotary encoder or rotary potentiometer
* Make wire longer so it can be tolerant to movement
* Type of mechanical component that permits rotation with wires on either side (slip ring)

Mounting methods?

* Adhesive possibly
* Make top cap wider for surface area
* Epoxy weld possible if permanent
* 3M, sticky foam, other products
* We might wanna revisit that clip idea (the thing that goes into the gasket to clip it)
* Possible sharing of hardware with other fixtures

Possibility of being able to adjust the height of the pinpad? Possible telescoping rod?

* Not really necessary

In order to make the arm able to contain a wire, how thick would the arm have to be? (taking into account usable space and thickness of the material)

* Wait we could keep the rotary thing on the top one

How to schedule lab for making things: ESTC for self things, TEAM lab for service