

MILESTONE 3.1 – REFINED CONCEPT: INITIAL PROTOTYPE - INDIVIDUAL

Team Number: TUES-22

Complete this worksheet individually before coming to Design Studio/Lab B for Week 9.

1. Take picture(s) of your refined concept (initial prototype)
→ Be sure to clearly indicate who each refined concept belongs to
2. Insert your photo(s) as a Picture (Insert > Picture > This Device)
3. **Do not include more than two refined concept pictures per page**
4. Include details on how concept was refined (what feedback was incorporated, what features are different than previous concept exploration, etc.)

At the beginning of Design Studio/Lab B, we will be asking that you copy-and-paste your refined concept picture(s) into **Milestone Three Team Worksheets**. It does seem redundant, but there are valid reasons for this:

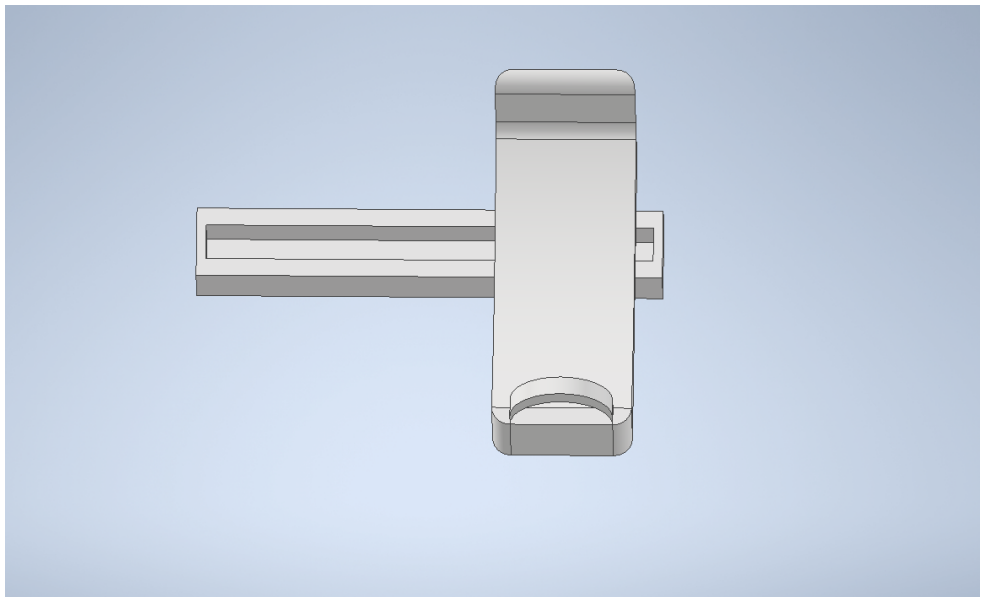
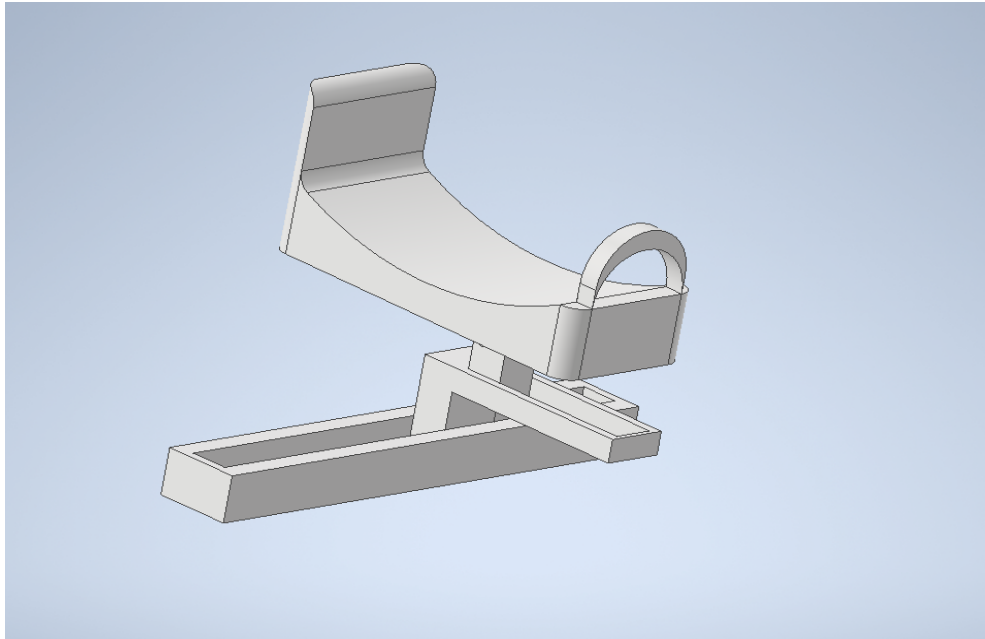
- Each team member needs to submit their refined concept picture(s) with the **Milestone Three Individual Worksheets** document so that it can be **graded**
- Compiling your individual work into this **Milestone Three Team Worksheets** document allows you to readily access your team member's work
 - This will be especially helpful when completing the rest of the milestone

Team Number: TUES-22

Name: Sana Khan

MacID: khans288

Insert picture(s) of your refined concept (initial prototype) below.



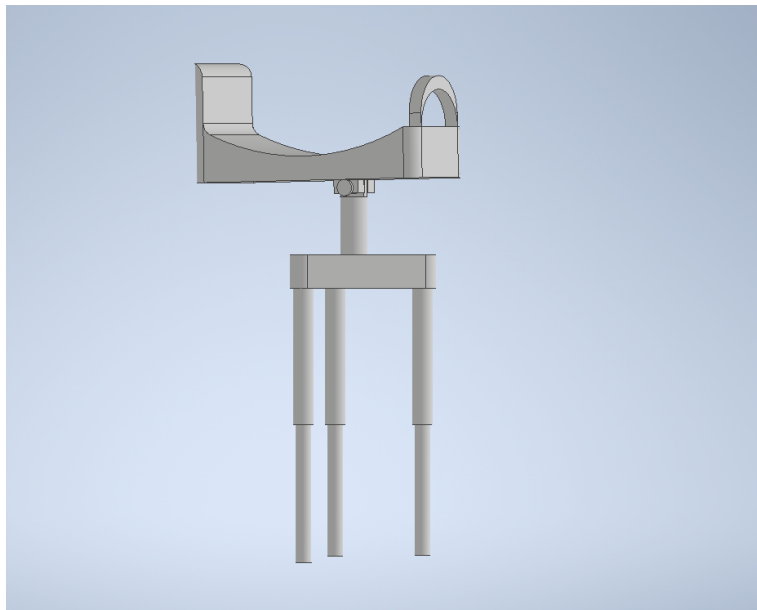
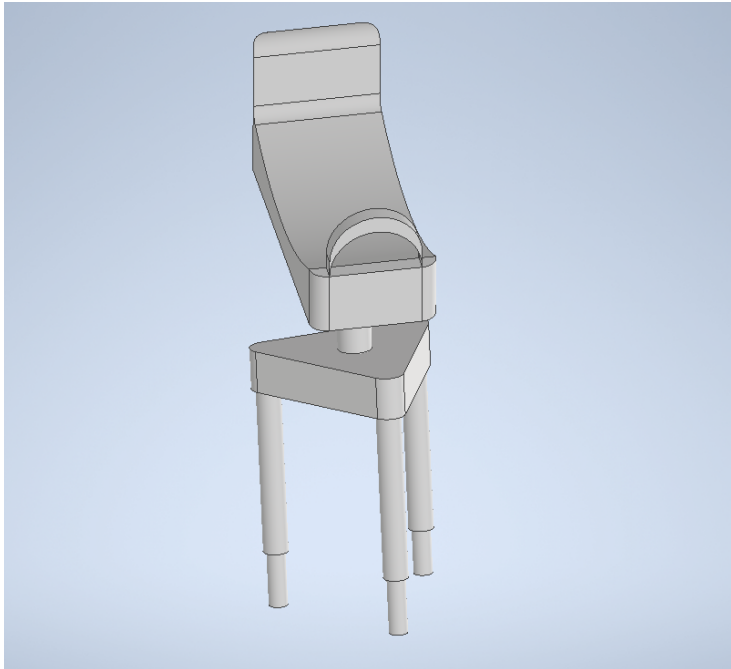
*Limit screenshots to no more than 2 per page. For additional screenshots, please copy and paste the above on a new page.

ENGINEER 1P13 – Project Four: *Power in Community*

Name: Sana Khan

MacID: khans288

Insert picture(s) of your refined concept (initial prototype) below.



*Limit screenshots to no more than 2 per page. For additional screenshots, please copy and paste the above on a new page.

ENGINEER 1P13 – Project Four: *Power in Community*

Name: Sana Khan	MacID: khans288
<p><i>Include details on your thought process and how the concept was refined below, with notes on relevant feedback that was incorporated (max. 200 words).</i></p> <p>I created a device that allows the client to be able to reduce the weight bearing of her own arm and have a wide range of motion to be able to paint without any restrictions. I built an arm rest attached to a height adjustable stand that she can use while painting standing up. Originally, I had something attached to her back, but we got feedback on how her back shouldn't be bearing too much weight or pressure, so I removed that aspect. The third and fourth screenshots represent this. The arm rest can rotate 360 degrees and up and down about a hinge. The legs are easily adjustable by becoming locked at the height she prefers with a mechanism that potentially uses her foot. I added in the feature where the arm rest can be removed and attached to a sliding rectangular base plate so that she can choose to paint laying down too. She can slide her arm side to side or extend it in and out. This is shown in the first and second screenshots. The arm rest would contain memory foam for comfort and a Velcro strap that she can wear or remove as she wants.</p>	

MILESTONE 3.2 – DECISION MATRIX

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Please complete this worksheet in your corresponding team document.

MILESTONE 3.3 – DESIGN REVIEW

Team Number: TUES-22

Please complete this worksheet in your corresponding team document.