

## MILESTONE 2 (STAGE 1) – REFINED CONCEPT SKETCHES (MODELLING SUB-TEAM)

Team Number: Thurs-03

Complete this worksheet individually before coming to Design Studio 8.

1. Complete your sketch on a separate sheet of paper  
→ Be sure to clearly write your Team Number, Name and MacID
2. Take a photo of your sketch
3. Insert your photo as a Picture (Insert > Picture > This Device)

At the beginning of Design Studio, we will be asking that you copy-and-paste the same photos into **Milestone Two Team Worksheets**. It does seem redundant, but there are valid reasons for this:

- Each team member needs to submit their refined concept sketches with the **Milestone Two Individual Worksheets** document so that it can be *graded*
- Compiling your individual work into this **Milestone Two Team Worksheets** document allows you to readily access your team member's work
  - This will be especially helpful when completing **Stage 3** of the milestone

Team Number: 

Thurs-03
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Name:	MacID:
<i>Insert screenshot(s) of your refined sketch below</i>	

\*For multiple sketches, please copy and paste the above on a new page

## MILESTONE 2 (STAGE 2) – COMPUTER PROGRAM WORKFLOW (COMPUTATION SUB-TEAM)

Team Number: 

Thurs-03
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Complete this worksheet individually before coming to Design Studio 8.

1. Complete your storyboard or flowchart sketches on a separate sheet of paper  
→ Be sure to clearly write your Team Number, Name and MacID on each sketch
2. Take a photo of your sketch
3. Insert your photo as a Picture (Insert > Picture > This Device)

At the beginning of Design Studio, we will be asking that you copy-and-paste the same photos into **Milestone Two Team Worksheets**. It does seem redundant, but there are valid reasons for this:

- Each team member needs to submit their storyboard/flowchart with the **Milestone Two Individual Worksheets** document so that it can be *graded*
- Compiling your individual work into this **Milestone Two Team Worksheets** document allows you to readily access your team member's work
  - This will be especially helpful when completing **Stage 3** of the milestone

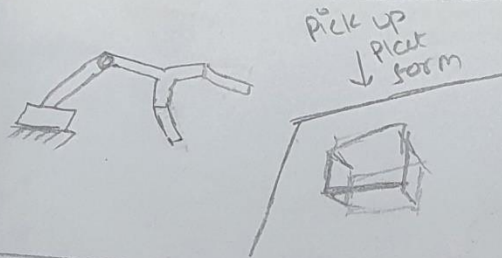
Team Number: Thurs-03

Name: Kartik Chaudhari	MacID:chaudk4
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Thurs-03  
Kartik Chaudhari  
Chaudhary

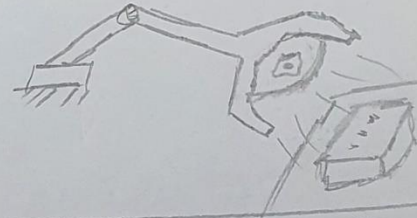
## Visual storyboard of Workflow

①



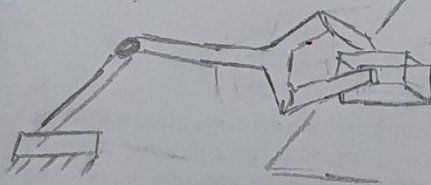
Q-arm at home position and gripper being fully open. In preparation for grabbing the container.

②



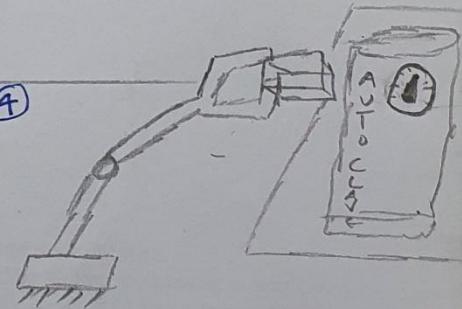
Correctly identifies the container's Id, shape, size and colour using the attached sensors.

③



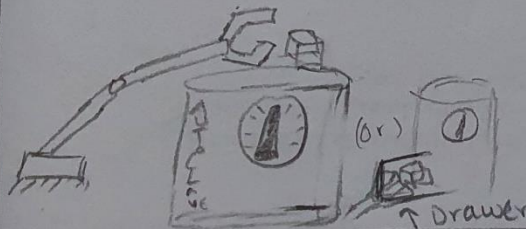
End effector locates the container correctly and grasps the container securely, attaching it to the arm.

④



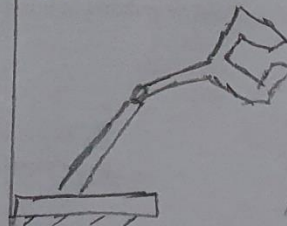
Q-bot moves and transfers the container object to the correct autoclave bin location. (Depending on size of container)

⑤



Q-arm releases the container by opening the gripper. For small on top For large open drawer

⑥



Q-arm returns to home position, after releasing the container.



## MILESTONE 2 (STAGE 3A) – LOW-FIDELITY PROTOTYPE (MODELLING SUB-TEAM)

Team Number: 

Thurs-03	
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**Please complete this worksheet in your corresponding team document.**

## MILESTONE 2 (STAGE 3B) – LOW-FIDELITY PROTOTYPE OBSERVATIONS (MODELLING SUB-TEAM)

**Please complete this worksheet in your corresponding team document.**

## MILESTONE 2 (STAGE 4A) – WORKFLOW PEER-REVIEW (COMPUTATION SUB-TEAM)

**Please complete this worksheet in your corresponding team document.**

## MILESTONE 2 (STAGE 4B) – PROGRAM PSEUDOCODE (COMPUTATION SUB-TEAM)

**Please complete this worksheet in your corresponding team document.**