PROJECT THREE: MILESTONE 1 – COVER PAGE

Team Number:

Tues-33

Please list full names and MacID's of all *present* Team Members

Full Name:	MacID:
Nolan Cross	crossn3
Zareen Kabir	kabirz
Luigi Quattrociocchi	quattrl
Fondson Lu	luh57
Sude Sayyan	sayyans

MILESTONE 1 (STAGE 1) – WHY/HOW LADDERING

Team Number:

Tues-33

- 1. Document both your conversation and a refined visual on a separate sheet of paper
- 2. Take a photo of both your rough work and refined visual
- 3. Insert each photo as a Picture (Insert > Picture > This Device)
- 4. Do not include more than one Picture per page



Refined Needs Hierarchy



MILESTONE 1 (STAGE 2) – LIST OF OBJECTIVES AND CONSTRAINTS

Team Tue Number:

Tues-33

As a team, create a list of objectives and constraints in the table below. The exact number you should have depends on what information you have gathered from the Project Pack as well your previously completed needs hierarchy.

Objectives	 Maximize Recyclables Distinguish between different types of disposable containers Minimize process time/Maximize efficiency of recycling process Should categorize items based on which type of disposable they are Should distribute items into their respective bins and maximize accuracy of container placement
Constraints	 Total mass of containers on bot cannot exceed 90g Hopper must hold a maximum of three containers Designed device for depositing containers must hold hopper and a mechanism for depositing containers into bins Must be able to identify contaminated items to be recycled Device must connect to baseplate at 2 locations

MILESTONE 1 (STAGE 3) – REFINED PROBLEM STATEMENT

Team Tues-33 Number:

Initial Problem Statement

1. Write the initial problem statement in the space below. This will have been defined in a previous lecture, prior to your scheduled Design Studio.

Design a system for sorting and recycling containers.

Refined Problem Statement

2. Write the refined problem statement below. Kindly refer to the Refined Problem Statement rubric provided on Avenue (see <u>P3 Rubrics</u>). This will guide your group in creating a valid statement.

Design a system that distinguishes between different containers to be recycled and sorts them to their appropriate bins to promote a positive environmental impact.