

# SFWRENG 4G06 & MECHTRON 4TB6

## Capstone Project – eBin

Group 20

### Project Description

A smart garbage bin that is able to recognize the type of garbage (normal garbage or recyclable garbage) and disposes the sorted garbage into corresponding sub-bins.

### Project Goals

#### Must have:

1. Achieve a certain accuracy in sorting two types of garbage (recyclable and others) which will be greater than sorted by humans.
2. Provide a more convenient way for users to sort and dispose their garbage.
3. The device should be quiet enough to not distracting people around.
4. The system should be efficient enough to handle multiple garbage disposed in a short time period.

#### Nice to have:

1. Having an educational purpose of providing users with the knowledge of garbage sorting techniques by displaying the type of garbage.
2. Provide a new waste management solution that is easier to clean and maintain compared to bins that are currently being used.