SFWRENG 4G06 & MECHTRON 4TB6

Capstone Project – eBin Contract

Group 20

eBin is 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. For the demo Group 20 will present, they will promise that the following features/scenarios are presented by the end of Capstone 2019/2020:

- The system will detect and take a picture of the garbage once it has been placed in the bin.
- Recognize the type (recyclable or others) of the garbage with an 80% of precision.
- Dispose the garbage into corresponding bin properly.
- The device will be quiet enough to not distracting people around.
- The processing time of one garbage will be within 15 sec.

The previous list of features are guaranteed to be shown at least once during the demonstration. They are considered the core functionalities Group 20's e-Bin application and they feel that it will be an overall good demonstration of the profut;s capabilities. While stretch goals listed in previous requirement documents are not promised, they are likely to appear.