

# Reward based Smart Trash Deposit Machine

## Abstract:

Clean and healthy environment is the need of the hour where overflowing garbage bins have been a cause of concern for the residents of the developing countries. With increase in population, the cleanliness with respect to garbage management is degrading tremendously. Considering this a project is developed which will not only reduce the trash but also gives the reward to person who has registered for it. It is an Arduino based project which detects the plastic bottle in the trash, collect it and after the identification process, reward to the person who has registered his contact number is given. He will have the facility to register though GUI made through Matlab . Keypad and finger print module are provided so that a number can be registered. Once the reward is given a registered number will also receive the message of it. Detection of bottle is done through the Camera connected to our system. It is a fully automated system which does not require any human involvement.

