

ABSTRACT

Cleanliness of an area is very dependent on the regional janitor. The task of a regional janitor is to clean every corner of the city and even highways, by pulling garbage carts and sweeping along the highways. Carrying out routine cleaning service tasks are required to tidy up and care for work equipment that is already in use. [1]

This tool is made to relieve the janitor. With work that is only focused on cleaning the road is expected to be able to streamline the time spent by workers. This final project was created with the aim of being able to assist the janitor with automatic human waste bin. Doing two things at one time is very ineffective, and takes longer.

The design of this garbage cart has two parts, namely the belt that determines the position of humans and the cart that will follow humans. This tool uses Arduino Uno as the main control. Infrared sensor as a measure of distance and the distance data input to the Ultrasonic Transducer sensor whose sender is on the belt and the Ultrasonic Transducer receiver is on the instrument. The output of this tool is the movement of the motor that will move towards the position of the Ultrasonic Transducer transmitter.

Keywords: Infrared Sensor, Ultrasonic Transducer Sensor, Arduino Uno, servo motor