Project Proposal

United International University

Course Title: Microprocessor, Microcontroller and Interfacing

Section: C

Project Name: Smart Dustbin

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Introduction:

Here we will make a smart dustbin by using Arduino and ultrasonic sensor. The main task of this dustbin is, it will open it's deksel automatically when someone want to put garbage on it . Our main objective is to motivate people so that they use dustbin.

Description:

Here we are going to use a plastic bucket as dustbin and cardboard as the deksel of that dustbin. We will place a ultrasonic sensor in front of the dustbin so that it can detect any living objects and help the dustbin to open it's deksel. After few second the deksel of our dustbin closed automatically.

Required Components:

1. Arduino Uno 429 Rs.
2. Ultrasonic Sensor 89 Rs.
3. 9g Servo 119Rs.
4. 9 V Battery.
5. Jumper wires.

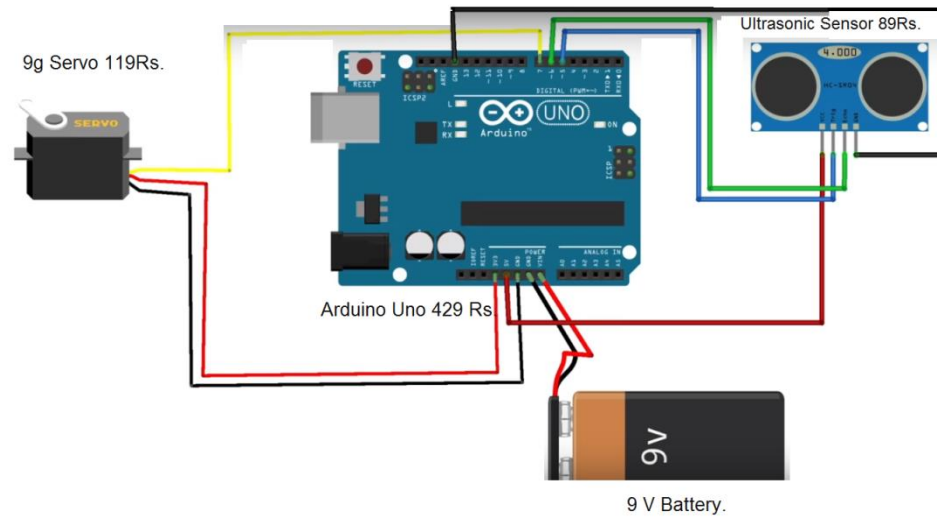9g Servo 119Rs.

Ultrasonic Sensor 89Rs.

Arduino Uno 429 Rs.

9V

9 V Battery.

Figure : Circuit Design of smart dustbin