Universidad ORT Uruguay

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Proyecto Taller de Tecnologias

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# Lista de materiales utilizados

* Dos módulos de Sensor Ultrasónico HC-SR04.
* Servomotor SG90.
* Pulsador.
* Dos resistencias de 330Ω.
* Resistencia de 10KΩ.
* Sensor de Temperatura LM35.
* Pantalla LCD 1602.
* Zumbador activo.
* LED Rojo de 3mm.
* LED Verde de 3mm.
* Breadboard.
* Mini Breadboard.

# Código

#include <Servo.h>

long distanciaCm1 = 300;

long tiempo1;

int echo1=12;

int trigg1=13;

long ultimaDist1 = 300;

long distanciaCm2;

long tiempo2;

int echo2=10;

int trigg2=9;

long ultimaDist2;

int lecturaTemp;

float temperatura;

float tempCelsius;

long anguloServo = 0;

Servo servo;

char bloqueado = false;

char abierto = false;

int tiempoAbierto;

void setup() {

Serial.begin(9600);

pinMode(echo1, INPUT);

pinMode(trigg1, OUTPUT);

servo.attach(6);

pinMode(4, OUTPUT);

pinMode(2, OUTPUT);

pinMode(3, OUTPUT);

pinMode(echo2, INPUT);

pinMode(trigg2, OUTPUT);

}

void loop() {

while (!bloqueado) {

//temperatura

lecturaTemp = analogRead(5);

temperatura = (lecturaTemp \* 5) / 1023.0;

tempCelsius = temperatura \* 100;

Serial.print("Temperatura: ");

Serial.print(tempCelsius);

Serial.println(" C");

if (tempCelsius > 80) {

bloqueado = true;

digitalWrite(3, HIGH);

} else {

bloqueado = false;

digitalWrite(3, LOW);

}

//Luces LED

digitalWrite(4, HIGH);

digitalWrite(2, LOW);

//Sensor tapa

digitalWrite(trigg1, LOW);

delayMicroseconds(5);

digitalWrite(trigg1, HIGH);

delayMicroseconds(10);

digitalWrite(trigg1, LOW);

tiempo1=pulseIn(echo1, HIGH);

distanciaCm1 = (0.034\*tiempo1) / 2;

Serial.print("Ultima distancia en centimetros tapa: ");

Serial.println(ultimaDist1);

Serial.print("Distancia en centimetros tapa: ");

Serial.println(distanciaCm1);

delay(1000);

ultimaDist1 = distanciaCm1;

if (distanciaCm1 = ultimaDist1 && distanciaCm1 <=20) {

abierto = true;

tiempoAbierto = 0;

}

while (abierto){

servo.write(90);

Serial.print("Tiempo de apertura: ");

Serial.println(tiempoAbierto);

tiempoAbierto = tiempoAbierto + 1;

delay(1000);

if (tiempoAbierto > 10) {

abierto = false;

}

}

if(!abierto){

servo.write(0);

}

//Sensor capacidad

digitalWrite(trigg2, LOW);

delayMicroseconds(5);

digitalWrite(trigg2, HIGH);

delayMicroseconds(10);

digitalWrite(trigg2, LOW);

tiempo2=pulseIn(echo2, HIGH);

distanciaCm2= (0.034\*tiempo2) / 2;

Serial.print("Ultima distancia en centimetros capacidad: ");

Serial.println(ultimaDist2);

Serial.print("Distancia en centimetros capacidad: ");

Serial.println(distanciaCm2);

delay(1000);

ultimaDist2 = distanciaCm2;

if (distanciaCm2 = ultimaDist2 && distanciaCm2 <= 5) {

bloqueado = true;

}

}

//bloqueo

if(bloqueado){

digitalWrite(4, LOW);

digitalWrite(2, HIGH);

servo.write(0);

}

//Pulsador

if (digitalRead(7) == HIGH){

digitalWrite(3, LOW);

tiempoAbierto = 0;

abierto = true;

while (abierto){

servo.write(90);

Serial.print("Tiempo de apertura: ");

Serial.println(tiempoAbierto);

tiempoAbierto = tiempoAbierto + 1;

delay(1000);

if (tiempoAbierto > 10) {

abierto = false;

}

}

bloqueado = false;

}

}

# Funcionalidades del prototipo.

## Apertura con proximidad

Nuestro prototipo utiliza uno de los módulos de sensor ultrasónico para medir la distancia, de esta forma, si alguien se acerca a dicho sensor, la tapa del contenedor se abrirá de forma automática sin la necesidad de que haya un contacto físico entre el usuario y el contenedor mismo. Para ello utiliza un servomotor SG90, que gira 90º cuando la distancia captada por el sensor es menor a los 20cm, luego espera 10 segundos y vuelve a su posición original, cerrando la tapa del contenedor.

## Precaución de incendios

Se utiliza el sensor de temperatura LM35 para medir la temperatura interior del contenedor, si esta supera los 80ºc el contenedor entrará en estado de “Bloqueo”, la tapa se cerrará y comenzará a sonar el zumbador a modo de alarma. Una vez que la temperatura haya disminuido, se puede pulsar un pulsador que volverá a su estado normal al contenedor.

## Medidor de capacidad interior

El otro módulo de sensor ultrasónico se utiliza dentro del mismo contenedor, este mide la distancia que hay entre la tapa y el fondo del contenedor, si esta distancia es menor a los 5cm el contenedor entrará en estado de “Bloqueo”, cerrará su tapa y no se podrá volver a ingresar residuos hasta que se pulse el pulsador, revirtiendo este estado y permitiendo abrir la tapa nuevamente.

## Notificación de estado del contenedor

El prototipo cuenta con dos LEDs, uno rojo y otro verde, el verde indica que el estado del contenedor es correcto, mientras que el rojo indica que hubo un problema (peligro de incendio o capacidad llena).

# Problemas encontrados durante el desarrollo y sus soluciones

* Debido a que ninguno de nosotros contaba con un sensor que nos permita medir el peso del contenedor, decidimos retirar dicha funcionalidad que se encontraba incluida en el Anteproyecto.
* Nos quedamos sin conexiones suficientes como para poder agregar la pantalla LCD presente en el anteproyecto, por ello tuvimos que retirarla.

# Diagrama de conexiones

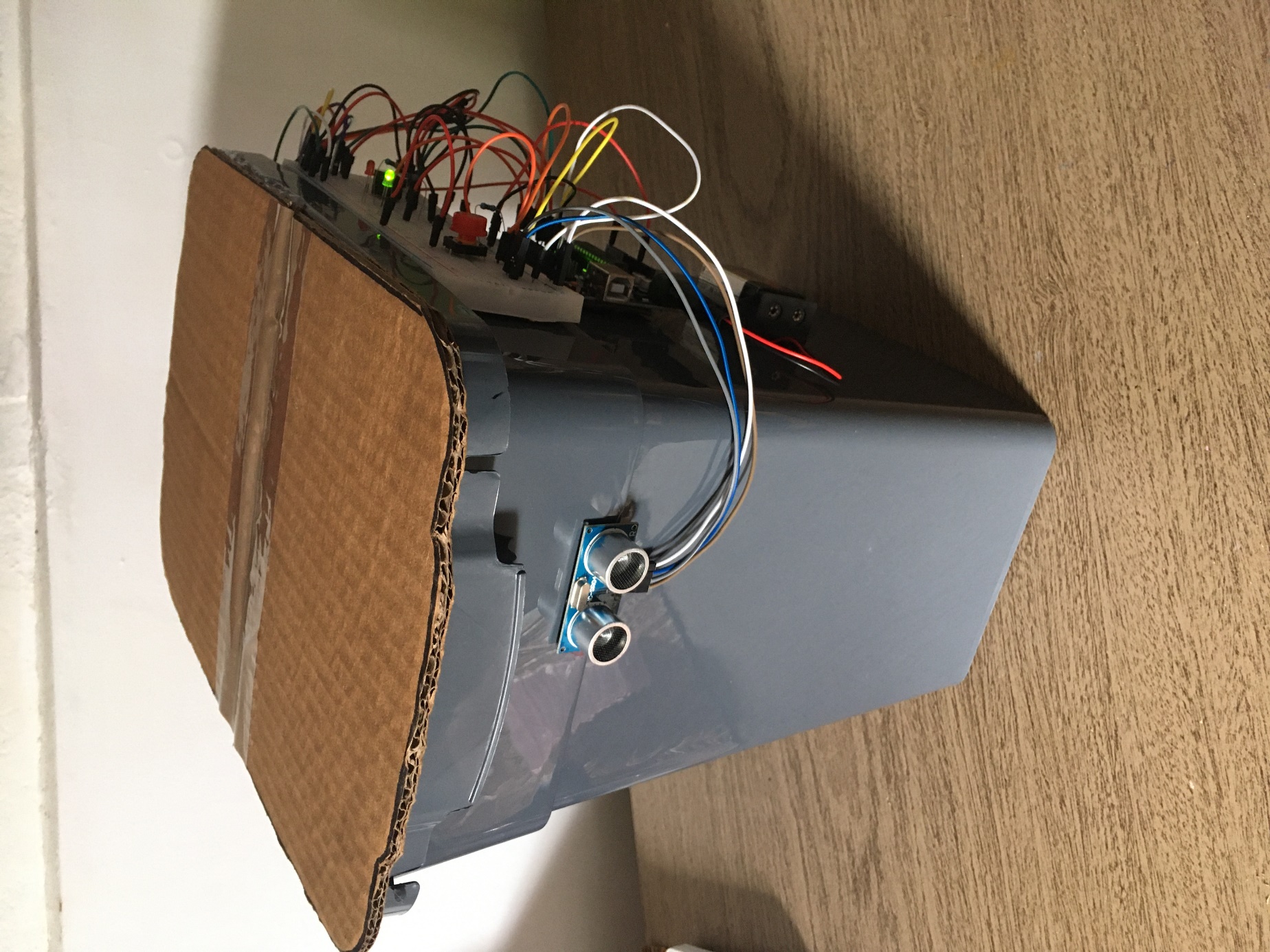
![Diagrama, Esquemático

Descripción generada automáticamente](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGludGVsAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAMzMQAAkpIAAgAAAAMzMQAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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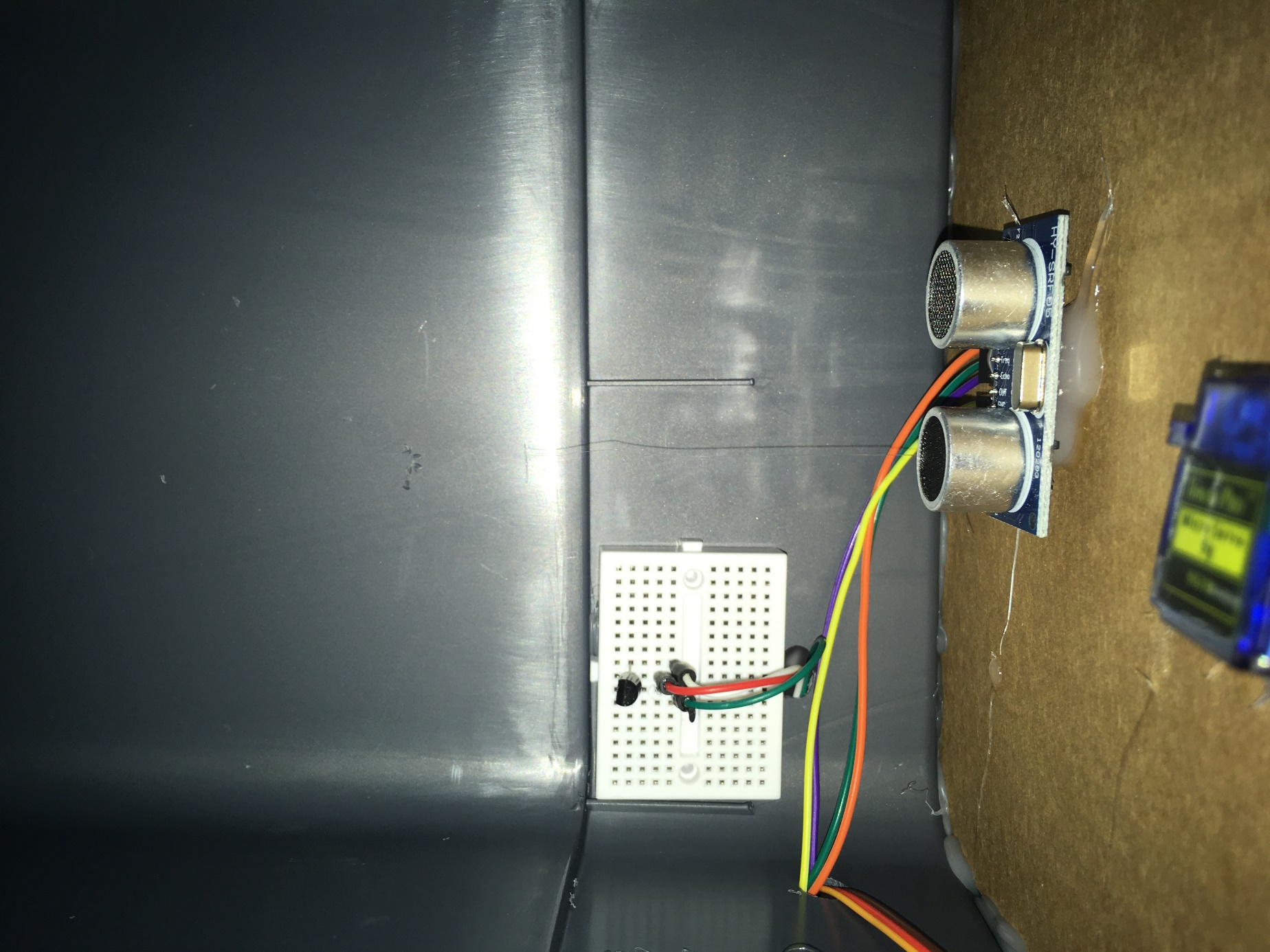
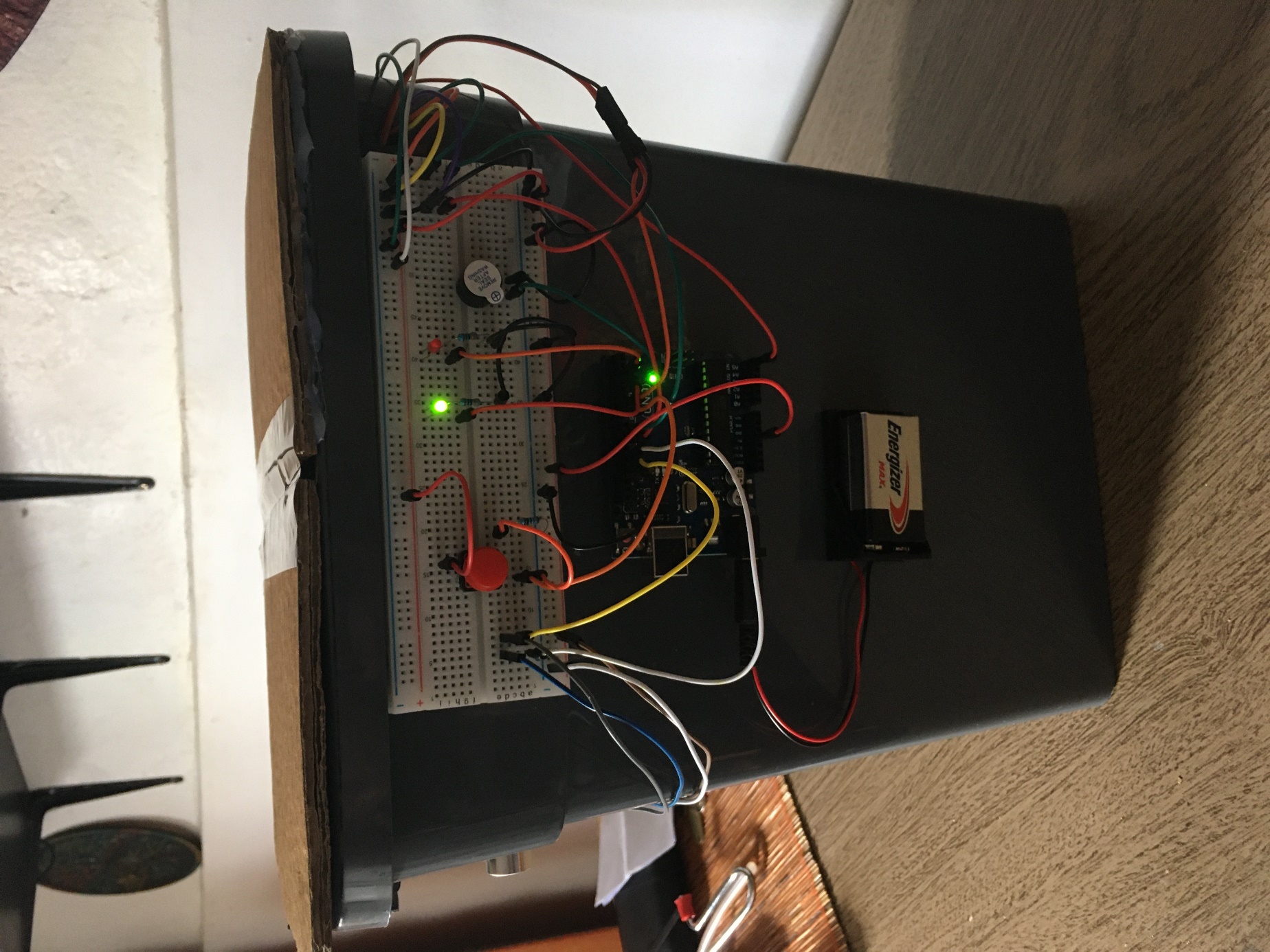
# Posibles mejoras

* Se le podría agregar un sensor que permita medir el peso del contenedor, de esta forma, si el peso de los contenidos es superior a una cantidad estipulada, el contenedor se bloqueará para que no se puedan ingresar más residuos.
* Con un módulo PCF8574 se podría adaptar una pantalla LCD, así se podría brindar mensajes a los usuarios en forma de texto, además de las otras opciones.

# Imagen o imágenes del prototipo



Sensor para apertura de tapa



LEDs de estado

Zumbador activo

Pulsador de desbloqueo

Servomotor

Sensor de temperatura

Sensor de capacidad interior

# Investigación correspondiente

Utilizamos el siguiente video a modo de inspiración:

* https://youtu.be/PxiKI6jmZM0

Luego en base a la idea se le agregaron el resto de las funcionalidades que creímos pertinentes.