

Mechanic Eye



INTRODUCTION TO COMPUTER ENGINEERING 101
FINAL PROJECT

GEBZE TECHNICAL UNIVERCITY
COMPUTEER ENGINEERING



-While they are checking ground they can't recognize upside object so they can injure themselves.

-We try to solve this problem as use measure distance to give information to person who use tool.



Metarials :

1x Maxbotix Ultrasonic Rangefinder

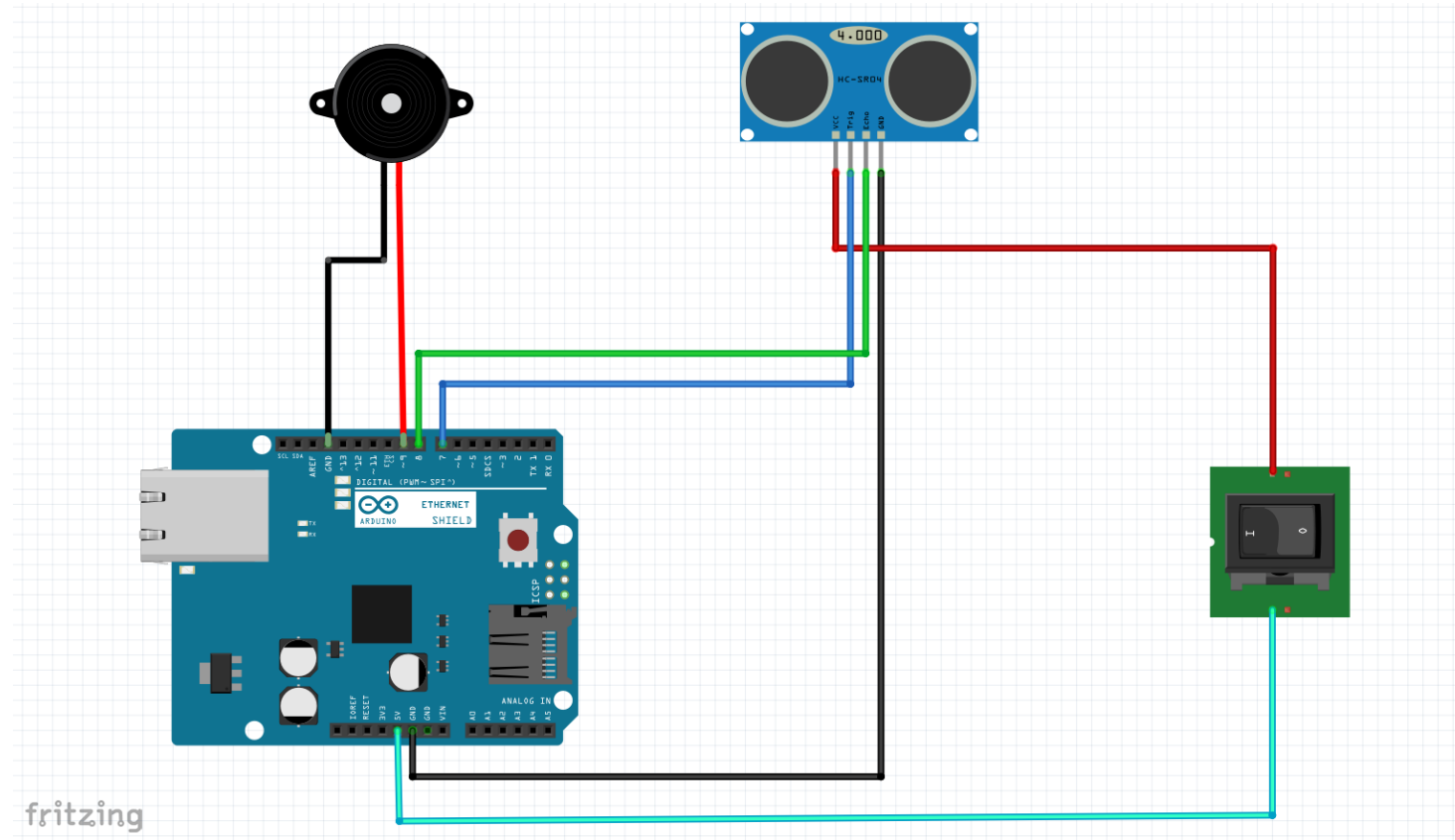
1x Arduino UNO

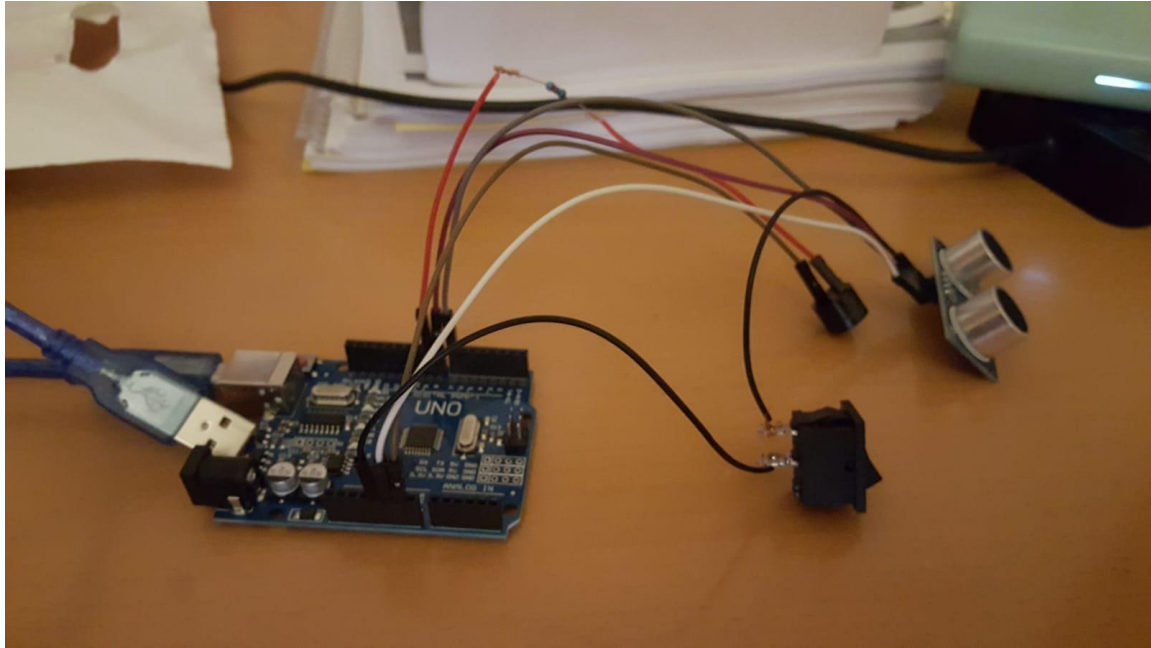
Rocker Switch

Buzzer

Resistance

PowerBank





```

void setup() {
  int trigPin=7;
  int echoPin=8;
  int buzzerPin=9;
  pinMode(trigPin, OUTPUT);
  pinMode(echoPin, INPUT);
  pinMode(buzzerPin, OUTPUT);
}

void loop() {

  int olcum = mesafe(maximumRange, minimumRange);
  nota(olcum*2);
}

int mesafe(int maxrange, int minrange)
{
  long duration, distance;
  int trigPin=7;
  int echoPin=8;
  int buzzerPin=9;
  digitalWrite(trigPin,LOW);
  delayMicroseconds(2);
  digitalWrite(trigPin, HIGH);
  delayMicroseconds(10);
  digitalWrite(trigPin, LOW);

  duration = pulseIn(echoPin, HIGH);
  distance = duration / 58.2;
  delay(50);
  if(distance >= maxrange || distance <= minrange)
    return 0;
  return distance;
}

int nota(int dly)
{
  int buzzerPin=9;
  tone(buzzerPin, 1000);
  delay(dly);
  noTone(buzzerPin);
  delay(dly);
}

```

```

//checker pin on the transmitter
//receiver pin on the transmitter
//Power supply of buzzer
// Sensörün çıkış pini
// Sensörün Alıcı pini
// Sensörün güç kaynağı

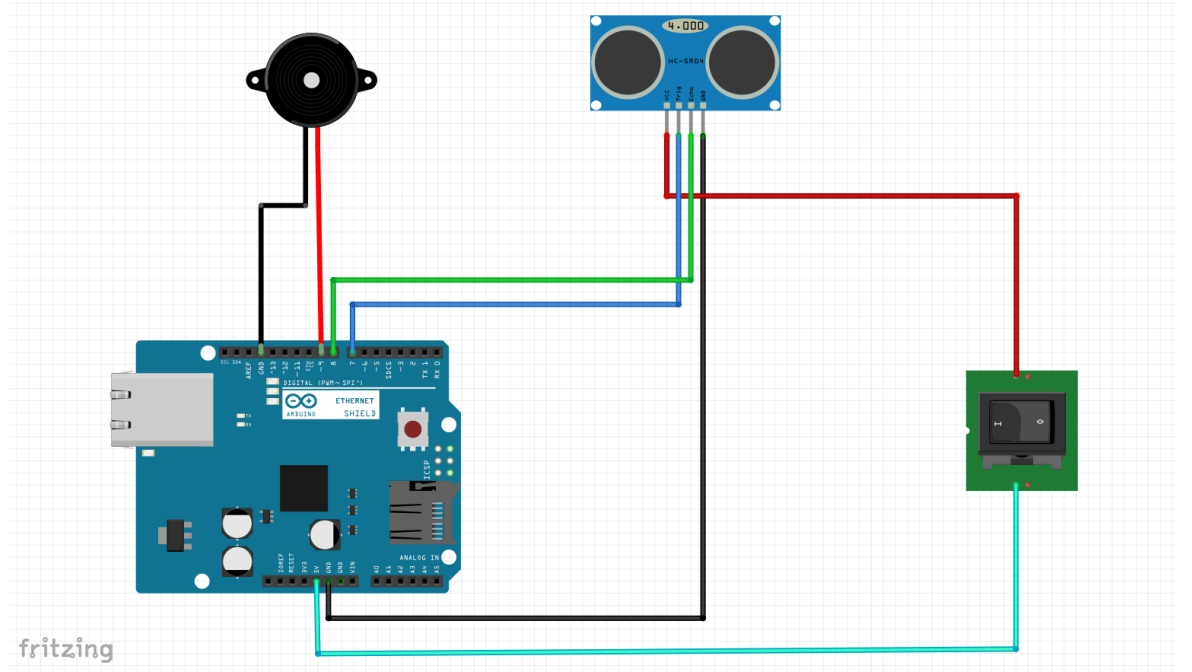
//ölçüm fonksiyonu
//buzzerdan çıkan ses tonu

//trigPini kapatır
//trigPini açar
//trigPini kapatır

//açılış-kapanış arası geçen süreyi ölçer
//bekleme süresi
//distance belirlenen mesafeler arasında değilse ötmaz
//distance belirlenen mesafeler arasında ise öter

//buzzerin çıkardığı ses tonu

```



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