LAMPIRAN

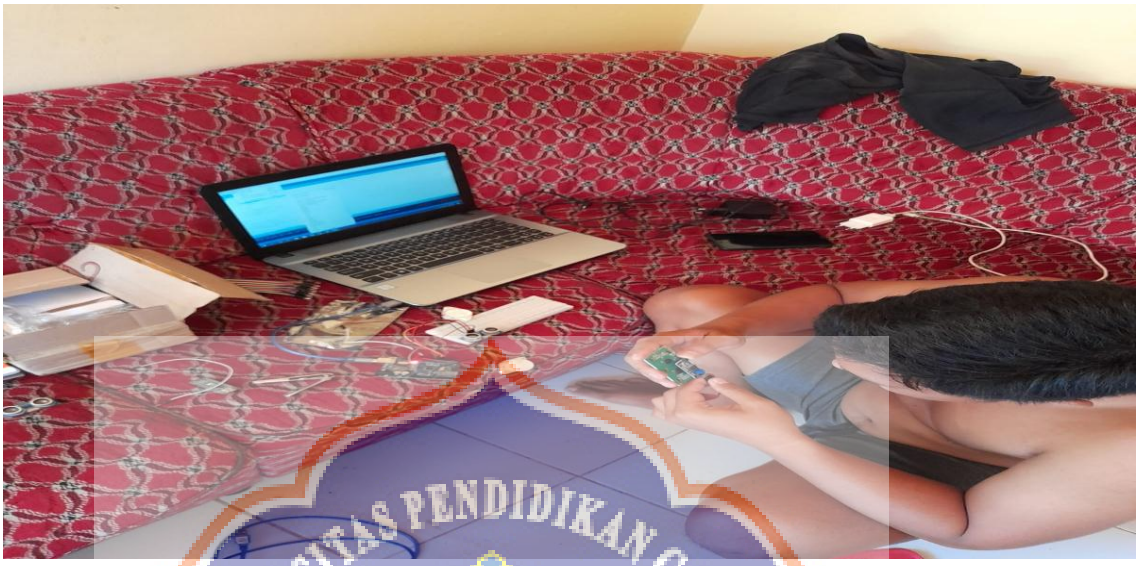
Lampiran 1. Coding Keseluruhan

```
#include <Wire.h>
#include <LiquidCrystal_I2C.h>
#define echoPin 8
#define trigPin 9
#define led1 11
#define led2 12 int tdasar,
sensor;

// inisialisai LCD LiquidCrystal_I2C
lcd(0x27,20,4);

void setup(){
  lcd.begin();                    //
  inisialisasi lcdlcd.backlight();
  Serial.begin(9600);
  lcd.setCursor(5, 0);
  lcd.print("ALARM");
  lcd.setCursor(2, 1); lcd.print("Anti Maling");
  delay (5000);
  lcd.clear();
  pinMode(echoPin,)
```

```
  INPUT); pinMode(trigPin,
  OUTPUT);pinMode(led1,
  OUTPUT); pinMode(led2,
  OUTPUT); tdasar = 35;
}

void loop(){ digitalWrite(echoPin,
  LOW);delayMicroseconds(10);
  digitalWrite(trigPin, HIGH);
  delayMicroseconds(10);
  digitalWrite(trigPin, LOW);
  int sensor = pulseIn(echoPin,
  HIGH);sensor = sensor/58;
  tdasar - sensor;

    if((tdasar>=15)&&(sensor<35))
        {digitalWrite(led1, HIGH);
        digitalWrite(led2, HIGH );
        lcd.clear();

        lcd.setCursor(0, 1);
        lcd.print("JARAK : ");
        lcd.print(sensor);
        lcd.print(" cm");
        lcd.setCursor(0, 0);
        lcd.print("BAHAYA (MALING)");
```

```
            delay(5000);
        }
        else{

            lcd.clear();
            digitalWrite(led1, LOW);
            digitalWrite(led2, LOW);
        }
    }
```

Lampiran 2. Dokumen Pembuatan Alat



Gambar 1. Pengecekan Kerja Sensor

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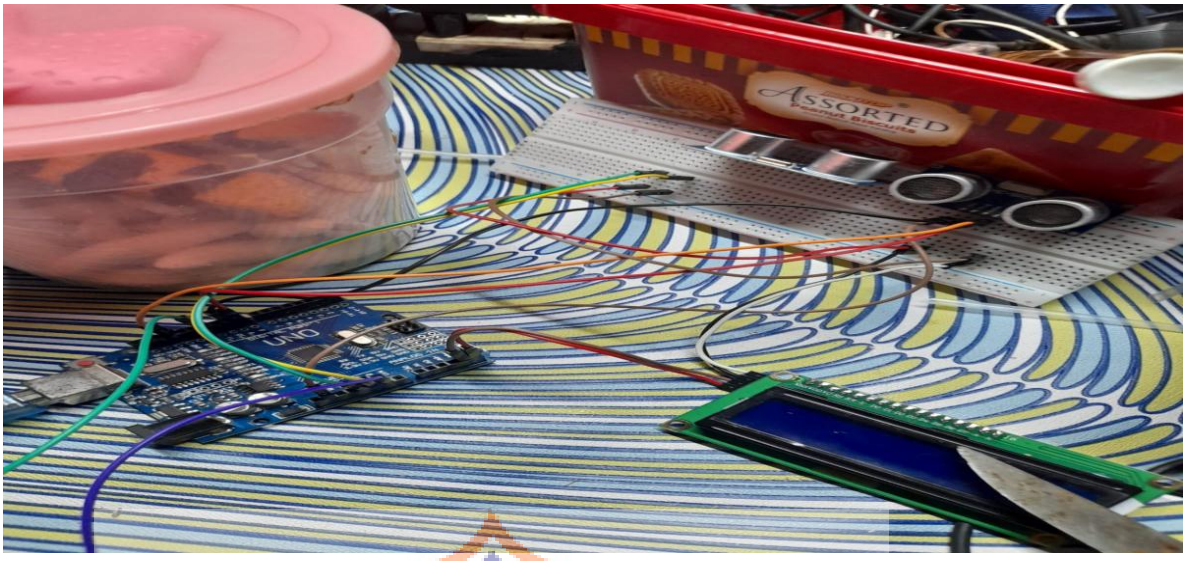
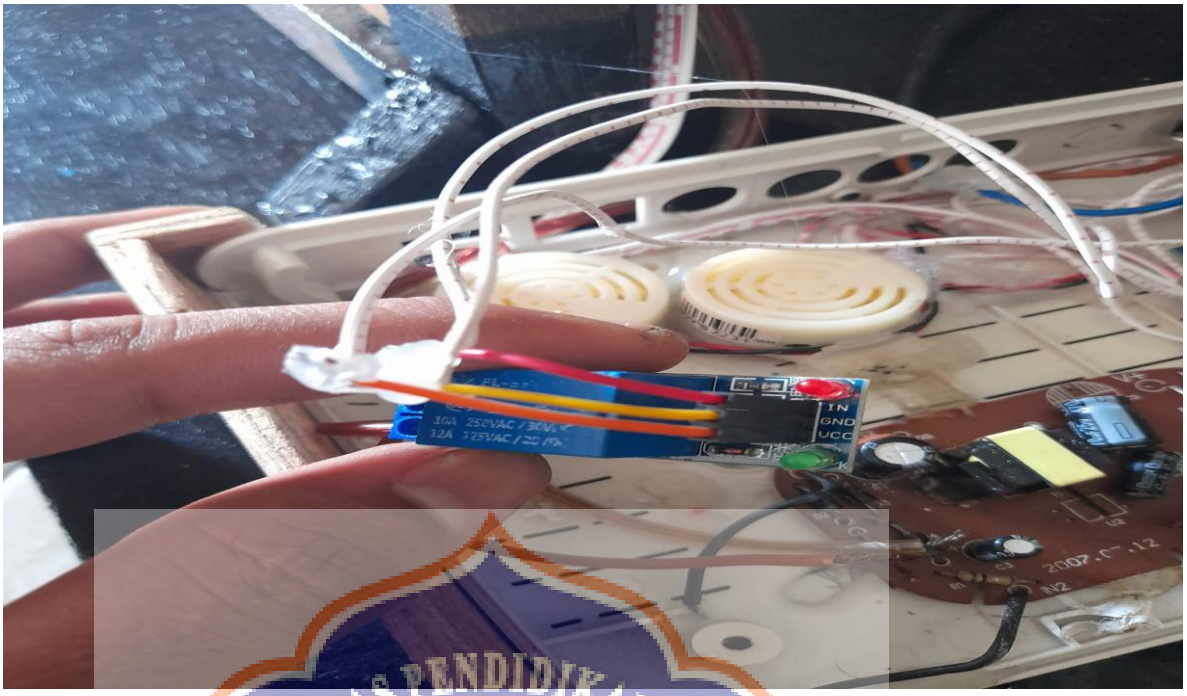
Gambar 2. Input Coding Sederhana Ke Arduino



Gambar 3. Rangkaian Sensor Ultrasonik & LCD

Gambar 4. Percobaan Semua Komponen



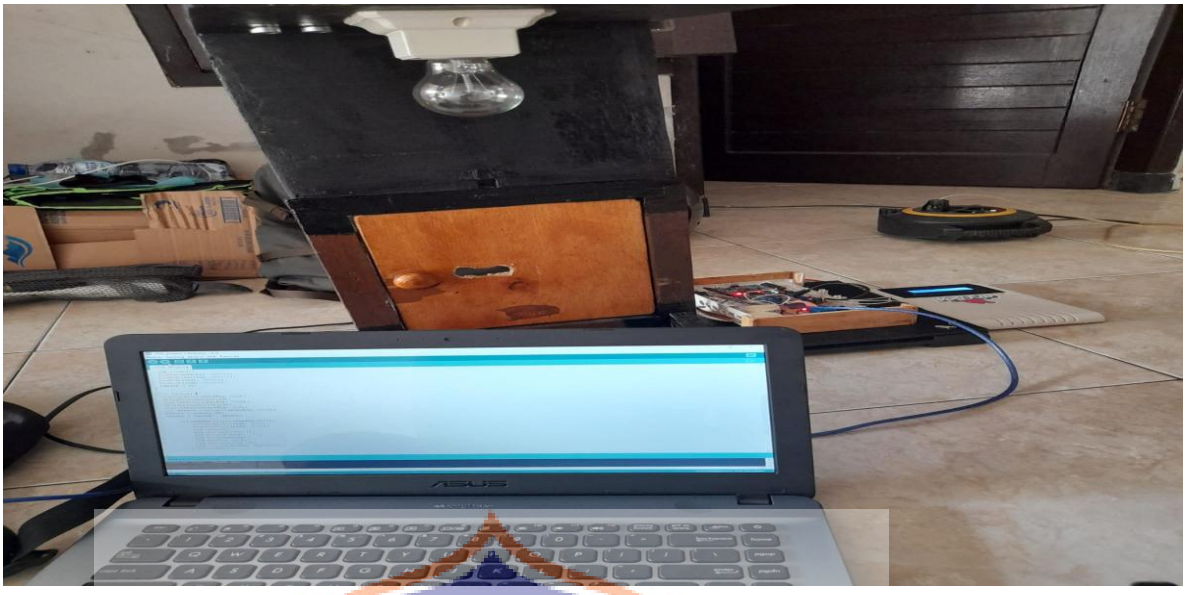
Gambar 5. Pemasangan Relay 1 Chanel

Gambar 6. Perakitan Semua Komponen

Gambar 7. Proses Pembuatan Pintu Prototype

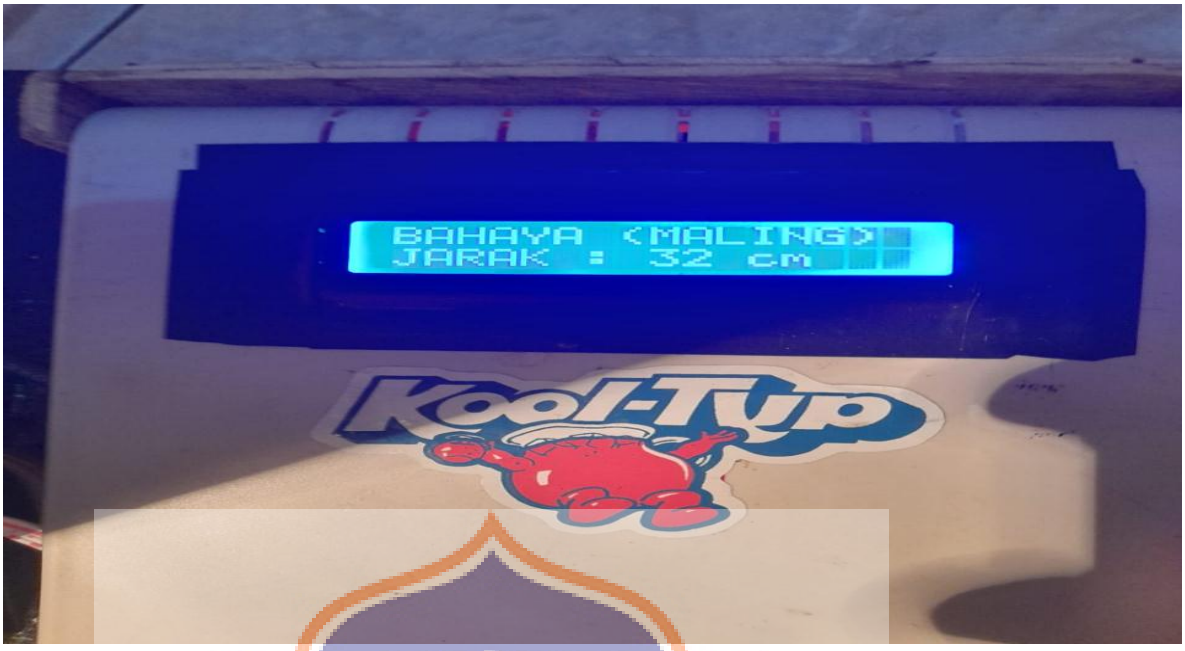
Gambar 8. Proses Pembuatan Pintu Prototype

Lampiran 3. Dokumentasi Uji Coba Alat



Gambar 1. Setting Jarak Sensor Ultrasonik

Gambar 2. Uji Coba Relay & Lampu



Gambar 3. Tampilan Pada LCD

Gambar 4. Letak Sensor Ultrasonik

Gambar 6. Bentuk Alat “Prototype Alarm Pengaman Pintu rumah Dengan Sensor Ultrasonik”