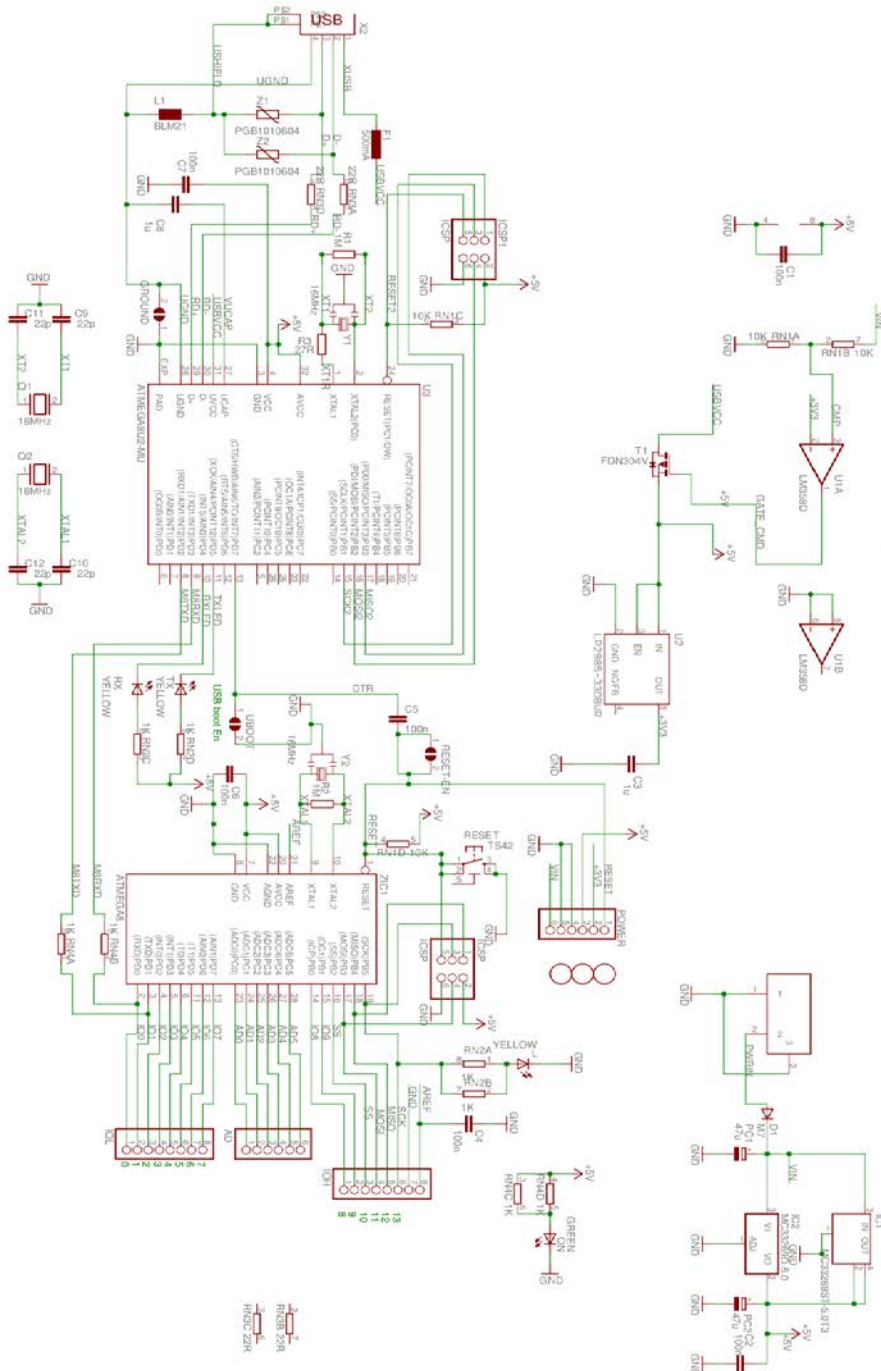


LAMPIRAN A

RANGKAIAN SKEMATIK ARDUINO

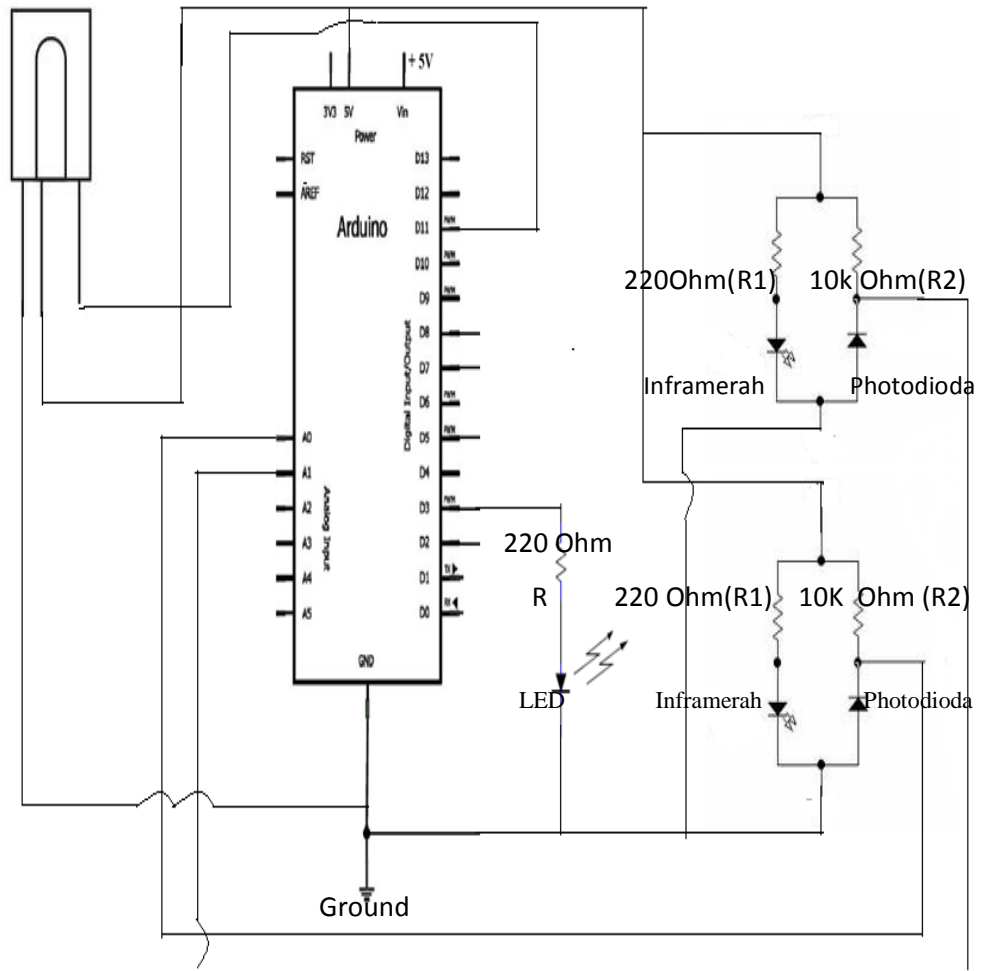
UNO



LAMPIRAN B

RANGKAIAN SKEMATIK ALAT

TSOP 1736



LAMPIRAN C

SOURCE CODE

```
#include <IRremote.h>
int RECV_PIN = 11;
String IRButton1 = "E13DDA28";
String IRButton2 = "AD586662";
String IRButton3 = "273009C4";
String IRButton4 = "F5999288";
String IRButton5 = "B9F56762";

const int infrared = 12;
const int buzzer = 13;
const int ledPin3 = 6;
const int ledPin4 = 7;

IRrecv irrecv(RECV_PIN);
decode_results results;

String BUTTONPRESSED;

int button1 = 0;
int button2 = 0;
int button3 = 0;
int button4 = 0;
int button5 = 1;
int button6 = 0;
int button7 = 0;
int button8 = 0;
int buzzeron = 0;

void setup()
{
  Serial.begin(9600);
  irrecv.enableIRIn(); // Start the receiver
  pinMode(infrared, OUTPUT);
  pinMode(buzzer, OUTPUT);
  pinMode(ledPin3, OUTPUT);
  pinMode(ledPin4, OUTPUT);
}
int sensor1;
int sensor2;

void loop() {
  if (irrecv.decode(&results) ) {
    Serial.println(results.value, HEX);
    BUTTONPRESSED = String(results.value, HEX);
    BUTTONPRESSED.toUpperCase();
    Serial.println(BUTTONPRESSED);

    //Password (power on)
    //digit 1
    if (BUTTONPRESSED == IRButton1){
      if (button1 == 0){
        button1 = 1;
        button2 = 1;
      }
    }
    //digit 2
    if (BUTTONPRESSED == IRButton2){
      if (button2 == 1){
        button3 = 1;
      }
    }
    //digit 3
    if (BUTTONPRESSED == IRButton3){
      if (button3 == 1){
        button4 = 1;
      }
    }
  }
}
```

```

    }
  }
  //digit 4
  if (BUTTONPRESSED == IRButton4){
    if (button4 == 1){
      digitalWrite(infrared, HIGH);
      digitalWrite(ledPin3, HIGH);
      button5 = 0;
    }
  }
  //tombol power off
  if (BUTTONPRESSED == IRButton1){
    if (button5 == 0){
      button5 = 1;
      button6 = 1;
    }
  }
  //digit 2
  if (BUTTONPRESSED == IRButton2){
    if (button6 == 1){
      button7 = 1;
    }
  }
  //digit 3
  if (BUTTONPRESSED == IRButton3){
    if (button7 == 1){
      button8 = 1;
    }
  }
  //digit 4
  if (BUTTONPRESSED == IRButton4){
    if (button8 == 1){
      buzzeron = 0;
      digitalWrite(infrared, LOW);
      digitalWrite(ledPin3, LOW);
      button1 = 0;
      button2 = 0;
      button3 = 0;
      button4 = 0;
      button5 = 1;
      button6 = 0;
      button7 = 0;
      button8 = 0;
    }
  }
  delay(100);
  irrecv.resume(); // Receive the next value
}

//mengaktifkan buzzer untuk alarm
sensor1=analogRead(A0);
if(sensor1>=500)
buzzeron = 1;
Serial.print("Nilai1: ");
Serial.println(sensor1);
delay(100);
sensor2=analogRead(A1);
if(sensor2>=500)
buzzeron = 1;
Serial.print("Nilai2: ");
Serial.println(sensor2);

//alarm mati jika tombol ditekan (bukan karena pintu ditutup lagi)
if (buzzeron == 1){
  digitalWrite(buzzer, HIGH);
  delay(100);
  digitalWrite(buzzer, LOW);
  delay(100);
}
}

```