

Lampiran 01. Coding Keseluruhan

```
#include "Config.h"

unsigned long delay_turn_on_millis = millis();

void setup() {
  pinMode(LDR_PIN, INPUT);
  pinMode(PIR_PIN, INPUT);
  pinMode(RELAY1_PIN, OUTPUT);pinMode(RELAY2_PIN, OUTPUT);
  Serial.begin(115200);
  Serial.print("START");
}

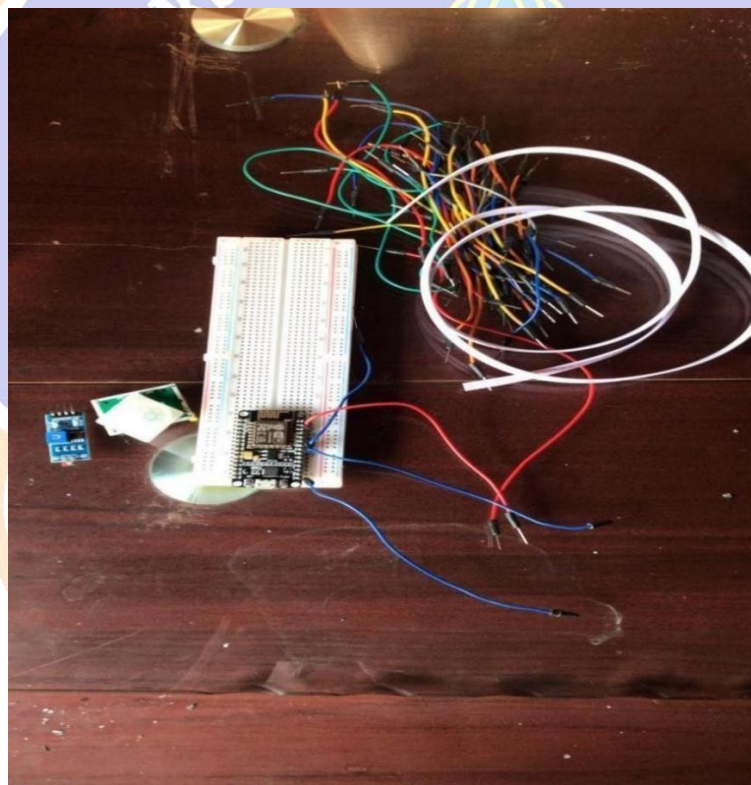
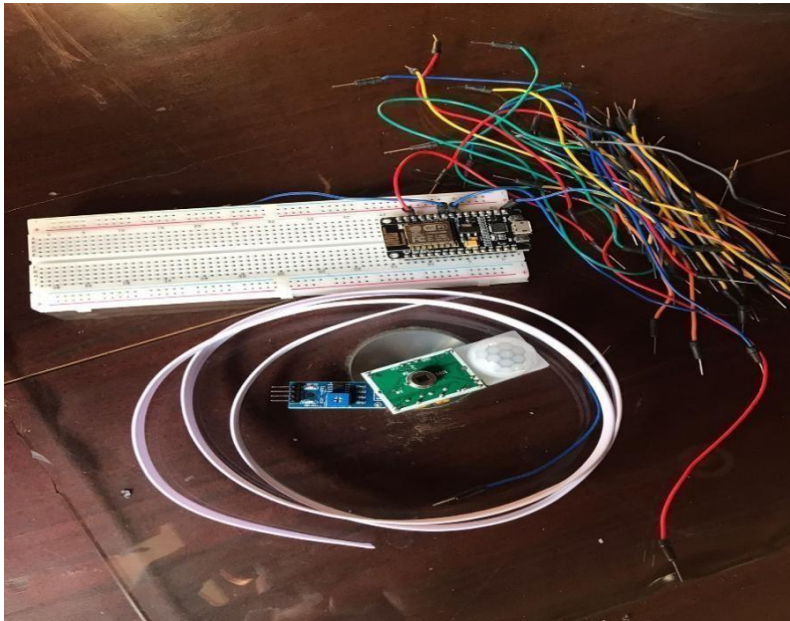
void loop() {
  int ldrValue = LDR_VAL; // Baca nilai dari sensor LDR
  int pirValue = PIR_VAL; // Baca nilai dari sensor PIR

  Serial.print("Sinyal LDR: ");
  Serial.print(ldrValue); Serial.print(" | Gerakan: ");
  Serial.println(pirValue);

  if (ldrValue == MALAM) { //Jika kondisi malam
    if (pirValue == GERAK) { //jika terdeteksi gerakan
      delay_turn_on_millis = millis();
      digitalWrite(RELAY1_PIN, LOW); // Hidupkan relay 1
      digitalWrite(RELAY2_PIN, LOW); // Hidupkan relay 2
    }
  }
  else if (millis() - delay_turn_on_millis > DELAY_ON) { digitalWrite(RELAY1_PIN, HIGH); // Matikan relay 1
    digitalWrite(RELAY2_PIN, HIGH); // Matikan
```

```
    relay 2  
  }  
}  
else { //Jika kondisi siang  
  digitalWrite(RELAY1_PIN, HIGH); // Matikan  
  relay 1 digitalWrite(RELAY2_PIN, HIGH); //  
  Matikan relay 2  
}  
delay(500); // Delay untuk stabilisasi pembacaan  
}
```



Lampiran 02. Dokumentasi Pembuatan Alat

Lampiran 03. Dokumentasi Pengujian Alat

