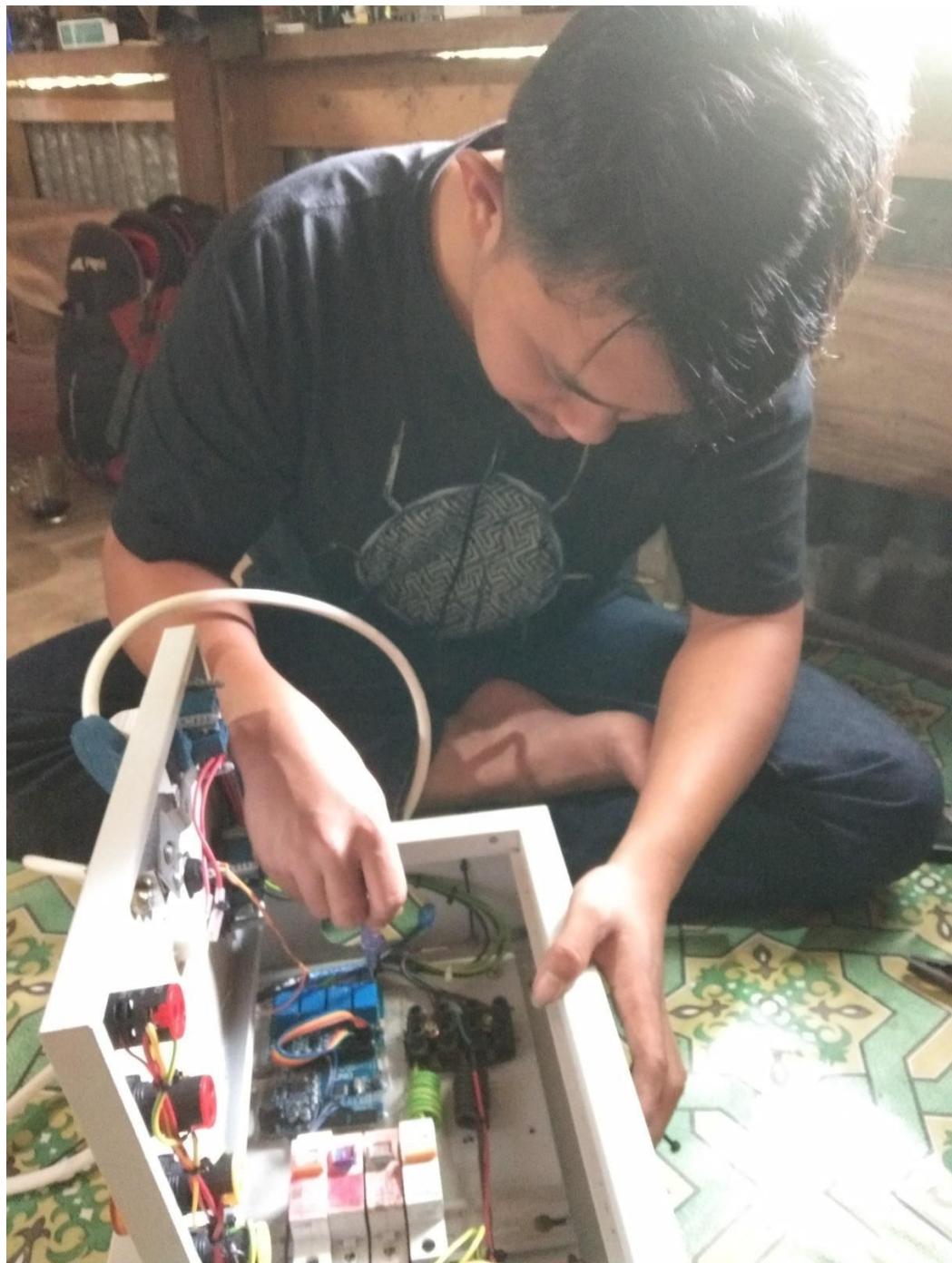


## LAMPIRAN

### Lampiran 1 :

Pemasangan komponen perangkat keras



**Lampiran 2.**

Pemasangan instalasi ATS



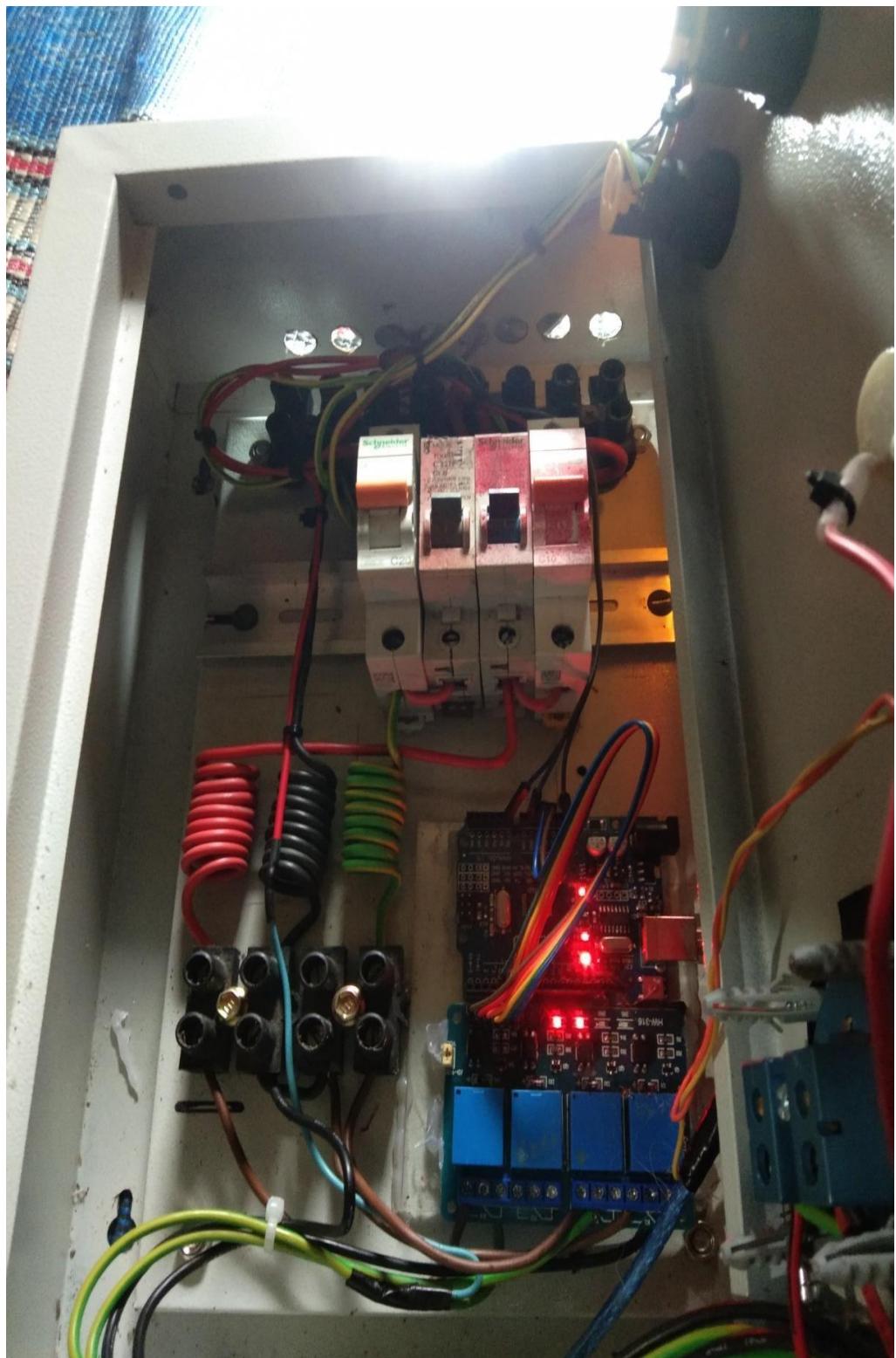
**Lampiran 3.**

Persiapan Pengujian ATS



#### Lampiran 4

##### Pengujian ATS



## Lampiran 5

Pengujian arus PLN padam



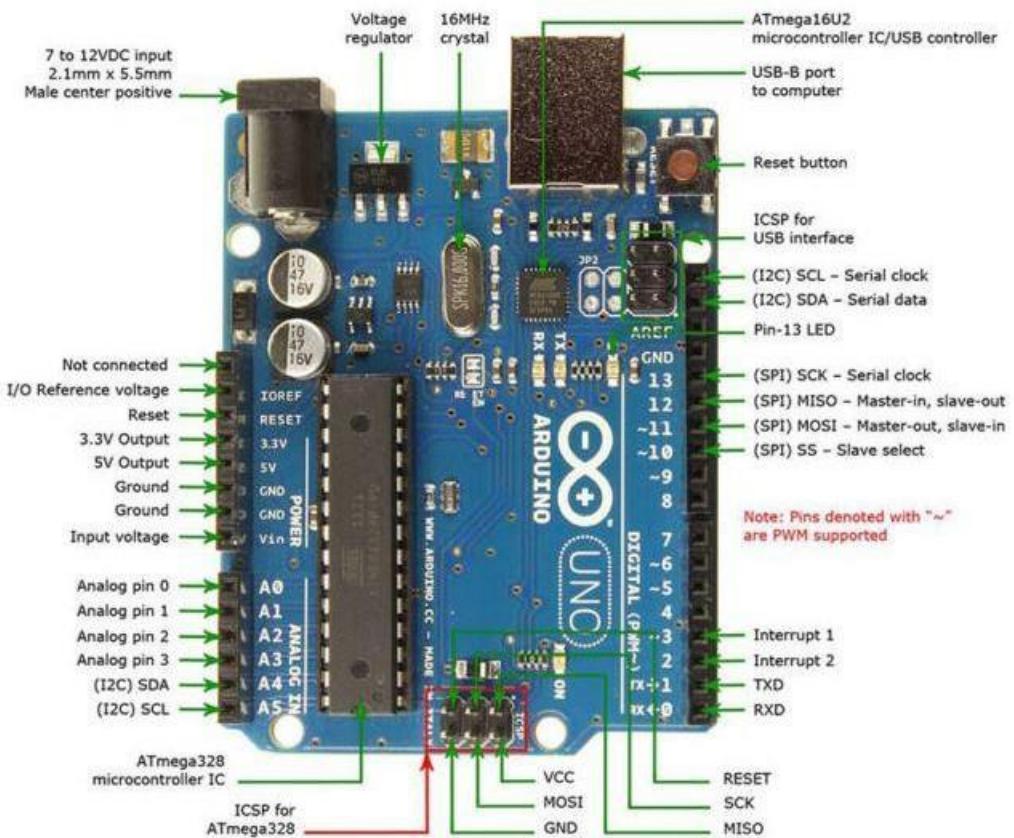
## Lampiran 6

Pengujian arus Genset padam



## Lampiran 7

Arduio uno



## Lampiran 8

**Tabel 4.2** Hasil Pengujian ATS

No	Pengujian	PLN		Genset		Keterangan
		Padam	menyala	Padam	Menyala	
1	Testing 1	✓			✓	Berhasil
2	Testing 2		✓	✓		Berhasil
3	Testing 3	✓			✓	Berhasil
			✓	✓		
4	Testing 4	✓			✓	Berhasil
5	Testing 5		✓	✓		Berhasil
6	Testing 6	✓			✓	Berhasil
			✓	✓		

## Lampiran 9

### Codingan (Perangkat Lunak)

```
const int LDR = A0;  
  
int input_val = 0;  
  
const int relay1 = 4;  
const int relay2 = 5;  
const int relay3 = 6;  
const int relay4 = 7;  
  
void setup() {  
    delay(5000);  
    pinMode(relay1,OUTPUT);  
    pinMode(relay2,OUTPUT);  
    pinMode(relay3,OUTPUT);  
    pinMode(relay4,OUTPUT);  
    Serial.begin(9600);  
}  
  
void loop() {  
    input_val = analogRead(LDR);  
    Serial.println(input_val);  
    if(input_val>20){  
        Serial.println("Kondisi 1");  
  
        digitalWrite(relay1, HIGH);  
        digitalWrite(relay2, HIGH);  
        digitalWrite(relay3, LOW);  
        digitalWrite(relay4, LOW);  
    }  
}
```

```
delay(5000);

if(input_val<20){

Serial.println("Kondisi      2");
digitalWrite(relay1, LOW);
digitalWrite(relay2,  LOW);
digitalWrite(relay3,  HIGH);
digitalWrite(relay4,  HIGH);
delay(5000);
```

## Lampiran 10.

### Surat izin penelitian

