

# LAMPIRAN

## 1. Sketch Program Arduino

```
const int nozzle = 3;
const int sikat = 4;
const int air = 5;
const int relay4 = 6;

int relayON = LOW; //relay nyala
int relayOFF = HIGH; //relay mati

void setup() {
  pinMode(nozzle, OUTPUT);
  pinMode(sikat, OUTPUT);
  pinMode(air, OUTPUT);
  pinMode(relay4, OUTPUT);

  digitalWrite(nozzle, relayOFF);
  digitalWrite(sikat, relayOFF);
  digitalWrite(air, relayOFF);
  digitalWrite(relay4, relayOFF);

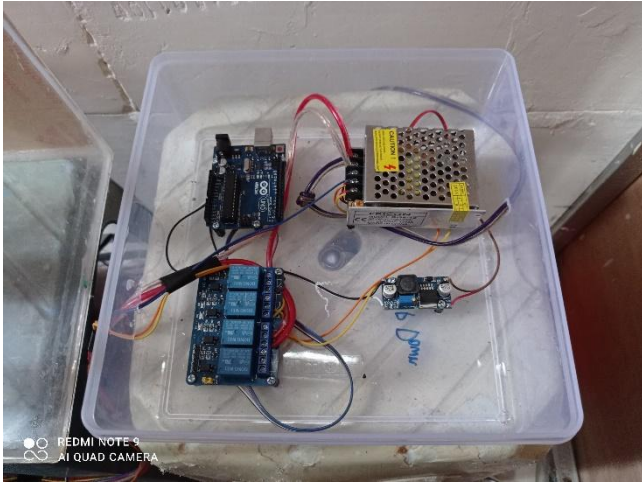
  digitalWrite(nozzle, relayON);
  delay(5000);
  digitalWrite(nozzle, relayOFF);
  delay(500);

  digitalWrite(sikat, relayON);
  delay(5000);
  digitalWrite(sikat, relayOFF);
  delay(500);

  digitalWrite(air, relayON);
  delay(5000);
  digitalWrite(air, relayOFF);
  delay(500);
}
```

nozzle sabun 5 detik  
sikat 5 detik  
air bersih (bilas) 5 detik

## 2. Foto Alat





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Ardi Surya Harkit Kusuma

Surabaya, 06 Februari 2021  
Mahasiswa,

Raket Andika Purnama



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ENDORSEMENT LETTER

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This letter is to certify that the abstract of the thesis below

Title : Design of Arduino-Based Dishwasher  
Student's name : Raket Andika Purnama  
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Department : D3 Teknik Komputer

has been endorsed by Pusat Bahasa *UMSurabaya* for further approval by the examining committee of the faculty.

Surabaya, 1 February 2021  
Chair

Waode Hamsia, M.Pd

## BIODATA



Raket Andika Purnama, lahir pada 23 Juni 1998 di kota Surabaya, Jawa Timur. Peneliti menyelesaikan pendidikan sekolah dasar di SDN Krembangan Selatan X Surabaya. Kemudian melanjutkan pendidikan Sekolah Menengah Pertama di SMP Kawung 1 Surabaya, dan kemudian melanjutkan Sekolah Menengah Kejuruan di SMK Barunawati Surabaya. Penulis diterima di program studi D3 Teknik Komputer Universitas Muhammadiyah Surabaya pada tahun 2016 dan terdaftar dengan NIM 20160335022.