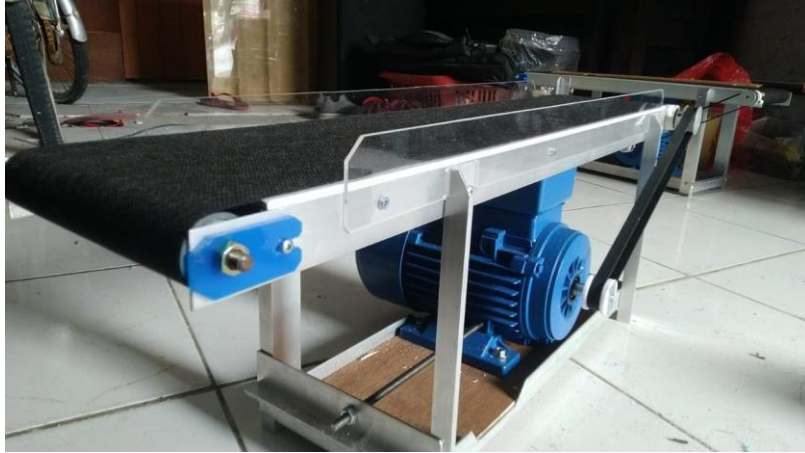


## LAMPIRAN

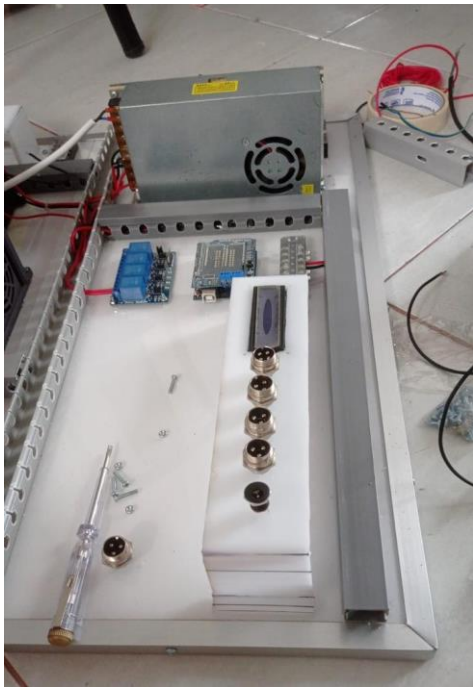
### 1. Dokumentasi Perakitan Konveyor



### 2. Dokumentasi Pengukuran Rpm Menggunakan Tachometer



### 3. Dokumentasi Perakitan Panel dan Penyambungan Konveyor



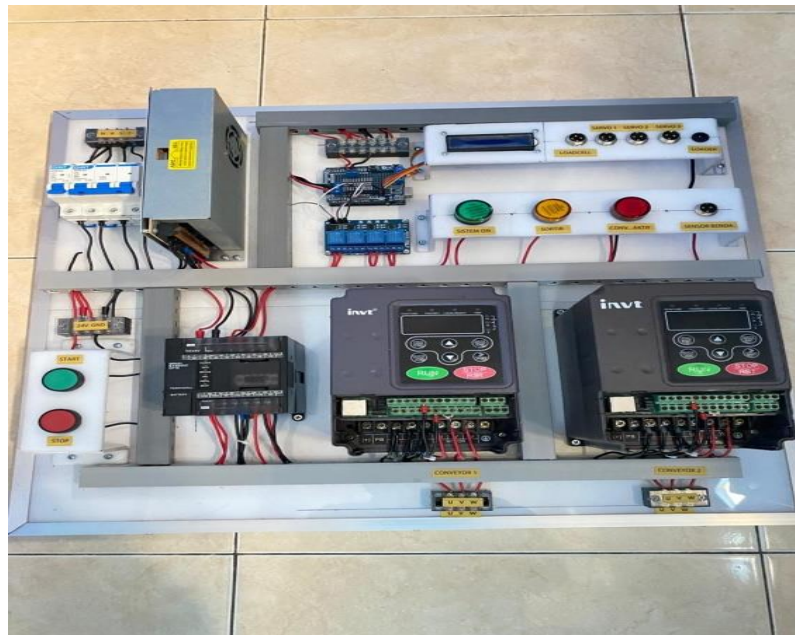
#### 4. Dokumentasi Pengujian Kecepatan dan Arus Pada Motor



## 5. Dokumentasi Pengujian Berat Sensor Load cell



## 6. Dokumentasi Pengujian Panel Kontrol



## 7. Program Arduino

```

load_cell_conveyor_revisi.ino
1 #include "HX711.h"
2 #include <Wire.h>
3 #include <LiquidCrystal_I2C.h>
4 LiquidCrystal_I2C lcd(0x27, 16, 2);
5 #include <Servo.h>
6
7 #define DOUT 6
8 #define CLK 7
9 #define conveyor_on 8
10 #define conveyor_2 12
11
12 Servo myservo1 ;
13 Servo myservo2 ;
14 Servo myservo3 ;
15
16 HX711 scale(DOUT, CLK);
17 float calibration_factor = 484.50;
18 int GRAM;
19 int pos = 0;
20
21 void setup() {
22   Serial.begin(9600);
23
24   myservo1.attach(10);
25   myservo2.attach(11);
26   myservo3.attach(9);
27
28   scale.set_scale();
29   scale.tare();
30   pinMode(conveyor_on, OUTPUT);
31   pinMode(conveyor_2, OUTPUT);
32
33   pinMode(conveyor_on, OUTPUT);
34   pinMode(conveyor_2, OUTPUT);
35
36 }
37
38 void loop() {
39
40   digitalWrite(conveyor_on, LOW); // conveyor nyala
41   //digitalWrite(conveyor_2, LOW); // conveyor 2 mati
42   servoawal();
43   myservo3.write(150);
44   baca_berat();
45   delay(1500);
46
47   if (GRAM > 50)
48   {
49     digitalWrite(conveyor_on, HIGH); // conveyor 1 mati
50     Serial.println("conveyor mati ");
51     if (GRAM > 800)
52     {
53       lcd.clear();
54       lcd.setCursor(0, 0);
55       lcd.print("Berat Benda = ");
56       lcd.setCursor(0, 1);
57       lcd.print(GRAM );
58       lcd.setCursor(5, 1);
59       lcd.print("GRAM ");
60       Serial.println("servo bergerak maju");

```

```

59   lcd.print("GRAM ");
60   Serial.println("servo bergerak maju");
61   digitalWrite(conveyor_2, LOW); // conveyor 2 nyala
62   servodorong();
63   servoawal();
64
65
66 }
67 else
68 {
69   digitalWrite(conveyor_2, HIGH); // conveyor 2 mati
70   lcd.clear();
71   lcd.setCursor(0, 0);
72   lcd.print("Berat Benda = ");
73   lcd.setCursor(0, 1);
74   lcd.print(GRAM );
75   lcd.setCursor(5, 1);
76   lcd.print("GRAM ");
77   Serial.println("servo reject on");
78
79   myservo3.write(0);
80   delay(1000);
81   myservo3.write(150);
82
83 }
84
85 }
86
87 else
88 {
89   digitalWrite(conveyor_on, LOW); // conveyor 1 nyala
90   digitalWrite(conveyor_2, HIGH); // conveyor 2 mati
91   Serial.println("beban tidak ada");
92   Serial.println("conveyor on");
93 }
94 delay(1000);
95 }
96
97 void baca_berat()
98 {
99   scale.set_scale(calibration_factor);
100   GRAM = scale.get_units(), 4;
101   //Serial.println(GRAM);
102
103 }
104 void servoawal()
105 {
106   myservo1.write(0);
107   myservo2.write(90);
108 }
109
110 void tare()
111 {
112   scale.set_scale();
113   scale.tare();
114 }
115 void servodorong()
116 {
117   myservo2.write(0);
118   delay(1000);

```