

## DAFTAR GAMBAR

Gambar 1. 1 Kerangka Berfikir.....	6
Gambar 2. 1 Arduino IDE .....	12
Gambar 2. 2 Arduino UNO .....	14
Gambar 2. 3 Sensor warna .....	18
Gambar 2. 4 Proteus .....	20
Gambar 2. 5 Metode prototype .....	22
Gambar 2. 6 Relay 2(dua) Channel.....	24
Gambar 2. 7 Load Cell.....	25
Gambar 2. 8 Power Supply 5V 5A.....	26
Gambar 2. 9 Pompa.....	26
Gambar 2. 10 Ilustrasi permasalahan <i>Closest pair point</i> .....	27
Gambar 3. 1 Dispenser.....	30
Gambar 3. 2 Gelas small .....	31
Gambar 3. 3 Gelas medium.....	31
Gambar 3. 4 Gelas large.....	31
Gambar 3. 5 Arduino.....	33
Gambar 3. 6 Tahapan Penelitian .....	34
Gambar 3. 7 Hasil quisioner .....	43
Gambar 3. 8 Blok Diagram alur komponen .....	45
Gambar 3. 9 Proses bisnis berjalan .....	48
Gambar 3. 10 Proses bisnis yang diusulkan.....	49
Gambar 4. 1 Sensor warna .....	51
Gambar 4. 2 Skema Sensor warna .....	52
Gambar 4. 3 Sensor Load cell .....	54
Gambar 4. 4 Skema sensor loadcell .....	54
Gambar 4. 5 Arduino.....	56
Gambar 4. 6 Relay 2(dua) channel.....	57
Gambar 4. 7 Skema relay 2(dua) channel .....	58
Gambar 4. 8 Pompa 5v .....	59
Gambar 4. 9 Skema pompa 5v .....	59
Gambar 4. 10 Kabel jumper male to male .....	60
Gambar 4. 11 Kabel Jumper male to female.....	60
Gambar 4. 12 Kabel jumper female to female .....	60
Gambar 4. 13 Power Supply 5v 5a.....	61
Gambar 4. 14 Rangkaian alat .....	63
Gambar 4. 15 Skema rangkaian alat .....	63
Gambar 4. 16 Arsitektur Sistem.....	64
Gambar 4. 17 Alur kerja alat.....	70
Gambar 4. 18 Hasil rancangan dari depan .....	71
Gambar 4. 19 Hasil rancangan di atas dispenser.....	71

Gambar 4. 20 Gelas orange.....	73
Gambar 4. 21 Gelas hijau.....	73
Gambar 4. 22 Gelas Biru.....	73