

## DAFTAR GAMBAR

Gambar 2.1 Skema Kontruksi Utama <i>Belt Conveyor Arduino Uno</i> .....	8
Gambar 2.2 Tampilan Sensor <i>Ultrasonic HC-SR04</i> .....	9
Gambar 2.3 Cara Kerja Sensor <i>Ultrasonic</i> .....	11
Gambar 2.4 Sensor <i>Ultrasonic HC-SR04</i> .....	12
Gambar 2.5 Bagian Sinyal Pin <i>Trig</i> .....	13
Gambar 2.6 Prinsip Sensor <i>Ultrasonic 1</i> .....	13
Gambar 2.7 Prinsip Sensor <i>Ultrasonic 2</i> .....	14
Gambar 2.8 Prinsip Sensor <i>Ultrasonic 3</i> .....	14
Gambar 2.9 Prinsip Sensor <i>Ultrasonic 4</i> .....	15
Gambar 2.10 Prinsip Sensor <i>Ultrasonic 5</i> .....	15
Gambar 2.11 Papan <i>Arduino Uno R3</i> .....	19
Gambar 2.12 Sistem <i>PLC</i> .....	22
Gambar 2.13 <i>Mitsubishi Intelligence Module A1S62DA</i> .....	24
Gambar 2.14 Instruksi Dasar <i>Ladder Diagram</i> .....	25
Gambar 2.15 Penampang Instruksi <i>Timer</i> .....	26
Gambar 2.16 Penampang Instruksi <i>Counter</i> .....	26
Gambar 2.17 Tampilan <i>GX Developer</i> .....	27
Gambar 2.18 Contoh <i>Ladder Diagram</i> .....	24
Gambar 3.1 Diagram Sistem .....	29
Gambar 3.2 Perancangan mekanik pemasangan sistem .....	30
Gambar 3.3 Rangkaian Elektrik .....	31
Gambar 3.4 Diagram Perangkat Lunak <i>Arduino</i> .....	32
Gambar 3.5 Diagram Pembuatan Sistem .....	33
Gambar 3.6 Program <i>Arduino 1</i> .....	34
Gambar 3.7 Program <i>Arduino 2</i> .....	34
Gambar 3.8 Program <i>Arduino 3</i> .....	35
Gambar 3.9 Program <i>Arduino 4</i> .....	35

Gambar 3.10 <i>Ladder Diagram</i> Program PLC.....	36
Gambar 4.1 Pemasangan Arduino Uno R3 dan Sensor <i>Ultrasonic</i> SR04 .....	37
Gambar 4.2 Rangkaian Arduino Uno R3 .....	38
Gambar 4.3 Rangkaian Panel PLC Mitsubishi .....	38

