DAFTAR GAMBAR

Gambar 2. 1 Arduino uno [5] 5
Gambar 2. 2 Motor Driver L298N [6] 6
Gambar 2. 3 Pin motor driver [6] 7
Gambar 2. 4 Motor DC 8
Gambar 2. 5 Limit switch 8
Gambar 2. 6 Power supply 9
Gambar 2. 7 HC-SR04 [10] 10
Gambar 2. 8 Relay 11
Gambar 2. 9 Pulse width modulation [5] 11
Gambar 3. 1 Gambaran umum sistem 13
Gambar 3. 2 Blok diagram sistem 13
Gambar 3. 3 Blok diagram automatic gate 14
Gambar 3. 4 Rangkaian kontrol main gate 15
Gambar 3. 5 Rangkaian kontrol security gate 15
Gambar 3. 6 Rangkaian limit switch 17
Gambar 3. 7 Rangkaian motor driver 18
Gambar 3. 8 rangkaian sensor ultrasonik 18
Gambar 3. 9 Diagram alir masuk dan keluar pintu gerbang parkir 20
Gambar 3. 10 Diagram alir security gate 21
Gambar 3. 11 Skematik kontrol gerbang otomatis 22
Gambar 3. 12 Skematik motor driver menggunakan relay [12] 22
Gambar 3. 13 Rancangan mekanika main gate 23
Gambar 3. 14 Rancangan mekanika security gate 23
Gambar 3. 15 Implementasi main gate 24
Gambar 3. 16 Implementasi security gate 25
Gambar 4. 1 Skenario posisi sensor ultrasonik 26
Gambar 4. 2 Hasil pengujian akurasi sensor ultrasonik saat masuk 27
Gambar 4. 3 Hasil pengujian akurasi sensor ultrasonik saat keluar 28
Gambar 4. 4 Skenario jarak antara main gate dan security gate 28
Gambar 4. 5 Hasil pengujian proses masuk main gate 30
Gambar 4. 6 Hasil pengujian proses keluar main gate 31