

DAFTAR GAMBAR

Gambar 2. 1 Haar Like Feature	4
Gambar 2. 2 Integral Image	5
Gambar 2. 3 Citra Integral.....	5
Gambar 2. 4 Nilai piksel dari citra integral	6
Gambar 2. 5 Nilai Piksel dari citra integral	6
Gambar 2. 6 Nilai citra input	6
Gambar 2. 7 Cascade Classifier	7
Gambar 2. 8 Arduino IDE.....	8
Gambar 2. 9 Pycharm	9
Gambar 2. 10 Arduino Uno	9
Gambar 2. 11 Module Bluetooth HC-05.....	10
Gambar 2. 12 LCD I2C	10
Gambar 2. 13 Module Buzzer KY-012.....	11
Gambar 2. 14 Webcam Logitech c922	12
Gambar 3. 1 Gambaran Sistem Saat Ini.....	13
Gambar 3. 2 Blok Diagram	16
Gambar 3. 3 Flowchart Sistem	17
Gambar 4. 1 Folder trainer GUI haar.....	24
Gambar 4. 2 Folder gambar positif dan negatif.....	24
Gambar 4. 3 input samples folder.....	25
Gambar 4. 4 running opencv train cascade.....	25
Gambar 4. 5 running opencv train cascade.....	25
Gambar 4. 6 hasil training.....	26
Gambar 4. 7 Library	26
Gambar 4. 8 Video Capture dan Dataset.....	26
Gambar 4. 9 Dataset hidung.xml.....	26
Gambar 4. 10 Mengubah gambar ke gray scale.....	27
Gambar 4. 11 ROI.....	27
Gambar 4. 12 Serial Send	28
Gambar 4. 13 Frame	28
Gambar 4. 14 Rangkaian Alarm Module Buzzer KY-012	28
Gambar 4. 15 Rangkaian LCD I2C	29
Gambar 4. 16 Rangkaian Module Bluetooth	30