

DAFTAR GAMBAR

Gambar 2. 1 Mikrokontroler ESP32-C3	10
Gambar 2. 2 Sensor MAX30102	11
Gambar 2. 3 Sensor MAX30205	13
Gambar 2. 4 LED OLED 128x64.....	14
Gambar 2. 5 Baterai Li-Po Rechargeable 3,7V	15
Gambar 2. 6 Charging Module	16
Gambar 2. 7 Metode Photoplethysmography	16
Gambar 2. 8 Logo Arduino Uno	17
Gambar 2. 9 Logo Android Studio	19
Gambar 2. 10 Logo VSCode	19
Gambar 2. 11 Logo Dart.....	20
Gambar 2. 12 Logo Firebase	21
Gambar 3. 1 Skematik Alat.....	28
Gambar 3. 2 Blok Diagram Sistem.....	28
Gambar 3. 3 Diagram Alir Wearable Device.....	30
Gambar 3. 4 Diagram Alir Machine Learning.....	32
Gambar 4. 1 Implementasi Sistem.....	36
Gambar 4. 2 Case Box Wearable Device.....	37
Gambar 4. 3 Source Code Sensor MAX30102	39
Gambar 4. 4 Source Code Sensor MAX30205	40
Gambar 4. 5 Dataset Publik untuk Training	41
Gambar 4. 6 Dataset Primer dari Wearable Device	41
Gambar 4. 7 Source Code Pembagian Data Training dan Testing	42
Gambar 4. 8 Source Code Pemilihan Model	44
Gambar 4. 9 Source Code Evaluasi Model	45
Gambar 4. 10 Source Code Pengiriman Hasil ke Firebase	45
Gambar 4. 11 Grafik Perbandingan Hasil Prediksi vs Aktual	46
Gambar 4. 12 Source Code Grafik Hasil Prediksi vs Aktual	47
Gambar 4. 13 Tampilan Cloud Firestore	47

Gambar 4. 14 Tampilan Firebase Authentication	48
Gambar 4. 15 Tampilan Firebase RTDB	49
Gambar 4. 16 Diagram Alir Mobile Application.....	49
Gambar 4. 17 Login Page	51
Gambar 4. 18 Register Page	51
Gambar 4. 19 Forgot Password Page.....	51
Gambar 4. 20 Dashboard	51
Gambar 4. 21 Main Dart.....	52
Gambar 5. 1 Monitoring Jarak Jauh	62