

## DAFTAR GAMBAR

Gambar 1. 1 Survey POTADS.....	2
Gambar 1. 2 Survey Orang Tua POTADS .....	2
Gambar 1. 3 Survey Penggunaan Alat Tracker di POTADS Bandung .....	3
Gambar 1. 4 Survey Kepuasan Orang Tua Terhadap Alat Tracker di POTADS Bandung	4
Gambar 3. 1 Sistem Kelistrikan Hardware .....	14
Gambar 3. 2 Flowchart Pengiriman Data Dari Alat Ke Firebase .....	15
Gambar 3. 3 Flowchart Mobile App Mengambil Data Dari Firebase .....	16
Gambar 3. 4 Flowchart Mobile App dan Website .....	17
Gambar 3. 5 Flowchart Website .....	18
Gambar 3. 6 Flowchart Mobile App.....	19
Gambar 4. 1 Mappi 32 .....	22
Gambar 4. 2 GPS eByte.....	23
Gambar 4. 3 Baterai CNHL LiHv Ministar Hv .....	24
Gambar 4. 4 Desain Rompi .....	25
Gambar 4. 5 Arduino IDE .....	26
Gambar 4. 6 JavaScript.....	26
Gambar 4. 7 CSS .....	27
Gambar 4. 8 PHP .....	28
Gambar 4. 9 HTML .....	28
Gambar 4. 10 Figma .....	29
Gambar 4. 11 Firebase .....	29
Gambar 4. 12 Android Studio.....	30
Gambar 4. 13 Blok Diagram Sistem Tracking .....	30
Gambar 4. 14 Tampilan Dalam Hardware GPS Tracker .....	31
Gambar 4. 15 Tampilan Luar Hardware .....	31
Gambar 4. 16 Flowchart GPS Tracker .....	33
Gambar 4. 17 Pengoperasian Mobile App.....	34
Gambar 4. 18 Tampilan Login Mobile App .....	34
Gambar 4. 19 Tampilan Register Mobile App .....	35
Gambar 4. 20 Tampilan Connect Alat Mobile App .....	35
Gambar 4. 21 Tampilan GPS Mobile App .....	36

Gambar 4. 22 Home page Website .....	37
Gambar 4. 23 Tampilan Login Website .....	37
Gambar 4. 24 Tampilan Beranda.....	38
Gambar 4. 25 Tampilan Tracker.....	38
Gambar 5. 1 Serial Number Arduino IDE .....	42
Gambar 5. 2 Pengujian RAM Mobile App.....	46
Gambar 5. 3 Rata - rata waktu penggunaan Mobile App .....	46
Gambar 5. 4 Pengukuran Baterai.....	48
Gambar 5. 5 Grafik Tegangan Tracking.....	48
Gambar 5. 6 Grafik Arus Tracking.....	49
Gambar 5. 7 Tegangan Idle .....	50
Gambar 5. 8 Arus Idle .....	50