

List Komponen

Hardware:

- ESP32 Dev Board
- Driver Motor (L298N)
- 4x Motor DC
- 2x Baterai 18650
- LCD 16x2 (16 pin)
- Kabel jumper & Breadboard

Software:

- Teachable Machine
- VS Code (untuk ubah halaman html)
- Arduino IDE (untuk import kode ke ESP32)

Wiring Komponen

Nama Komponen	Fungsi / Pin	Pin pada ESP32
LCD 16x2	RS	GPIO 21
	EN	GPIO 22
	D4	GPIO 19
	D5	GPIO 18
	D6	GPIO 5
	D7	GPIO 17
Motor Driver (IN1)	Motor kanan (arah 1)	GPIO 32
Motor Driver (IN2)	Motor kanan (arah 2)	GPIO 33
Motor Driver (IN3)	Motor kiri (arah 1)	GPIO 25
Motor Driver (IN4)	Motor kiri (arah 2)	GPIO 26
Motor Driver (ENA/ENB)	Power motor (jika ada PWM)	5V (atau langsung ke VCC motor)
Motor Driver VCC	Catu daya logic	5V
Motor Driver GND	Ground	GND
Motor Driver VM/VIN	Power untuk motor DC	2x 18650 Battery (7.4V)