Circuit Schematic: IoT-Enabled ESP32 Car

ESP32 Pin Mapping:

- Motor IN1: GPIO 27

- Motor IN2: GPIO 14

- Motor IN3: GPIO 12

- Motor IN4: GPIO 13

- Motor ENA/ENB: GPIO 22

- Ultrasonic Trig: GPIO 5

- Ultrasonic Echo: GPIO 18

- LCD SDA: GPIO 21

- LCD SCL: GPIO 22

- DHT11: GPIO 15

- Buzzer: GPIO 4

- Battery Voltage (via divider): GPIO 34

Power:

- Battery: 7.4V (2x 18650) or 9V

- Power L298N and ESP32 via Vin

Use voltage divider for battery monitoring (e.g., 100k & 10k resistors).