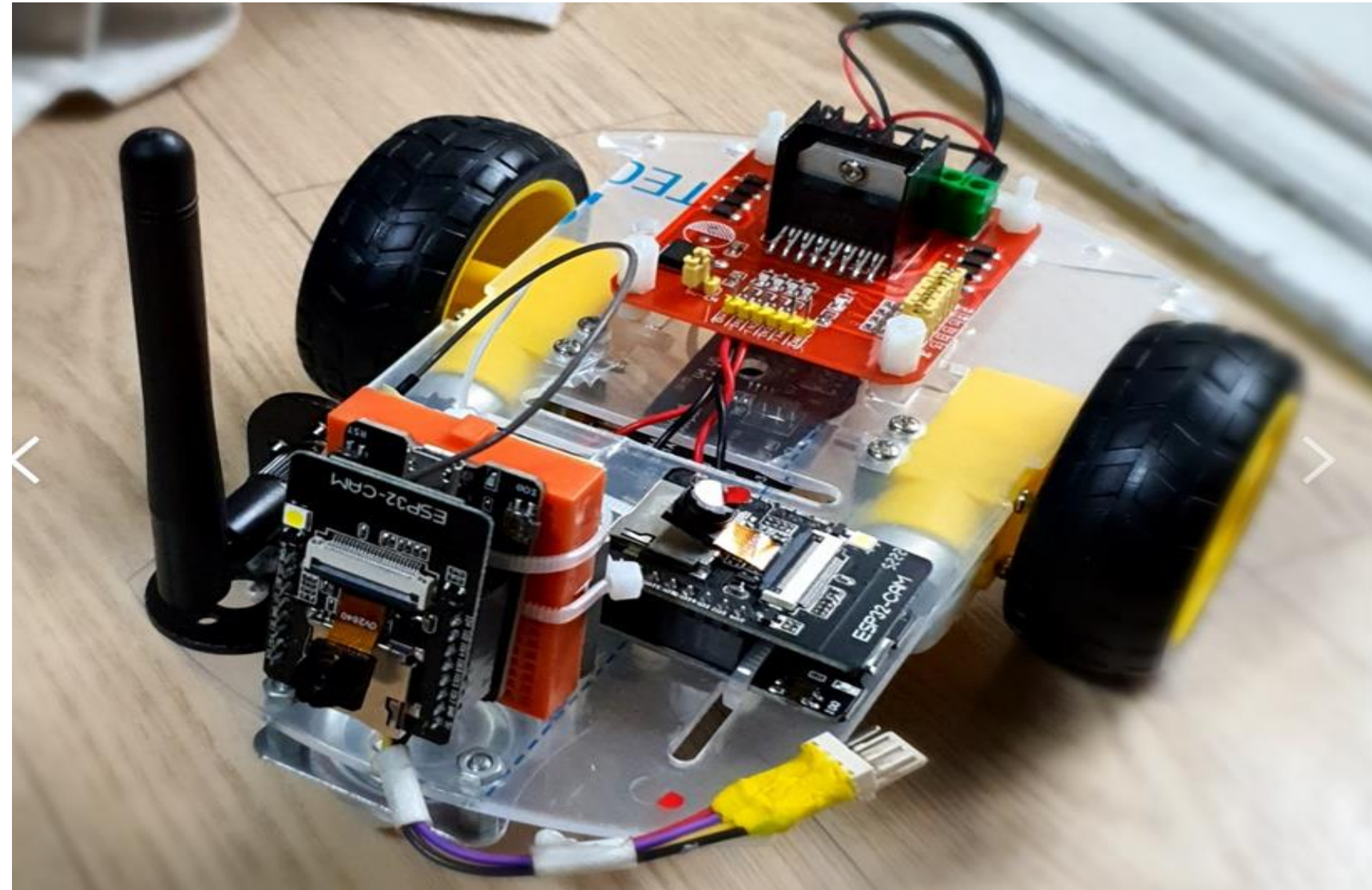


ESP32-CAM RC 로봇 구성도



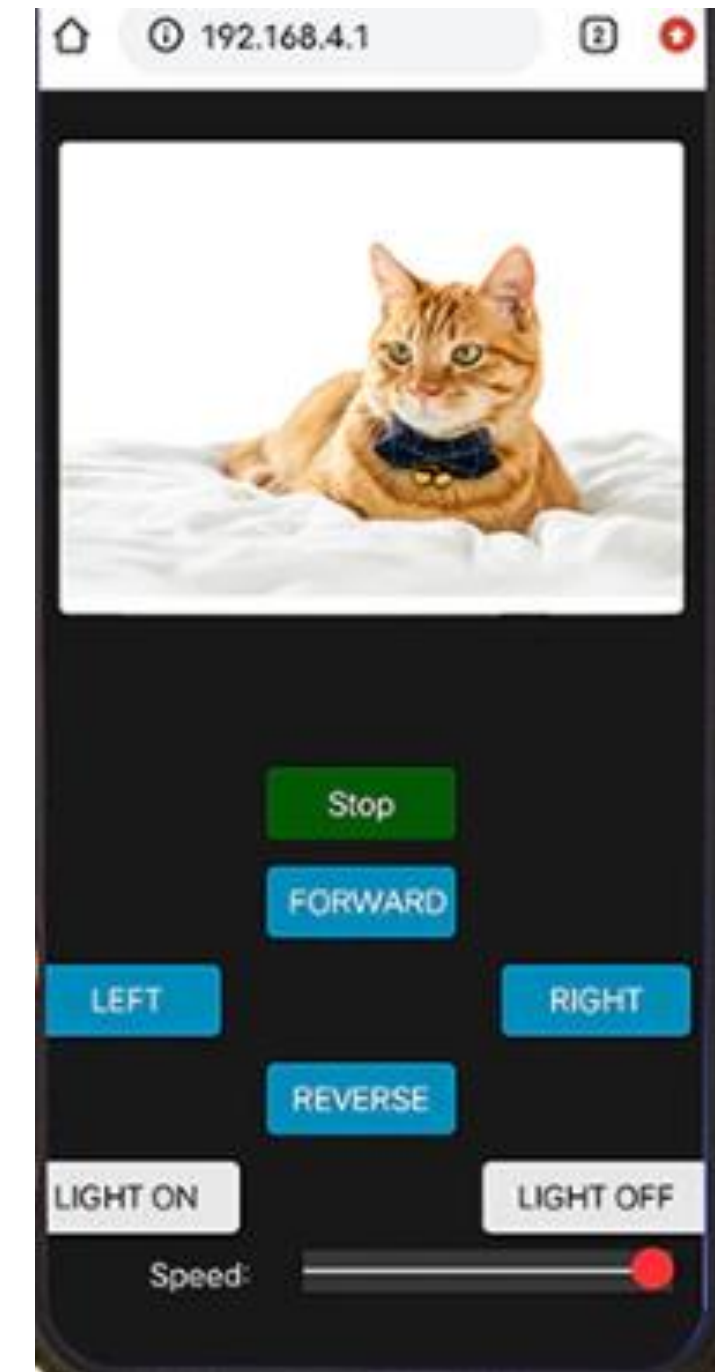
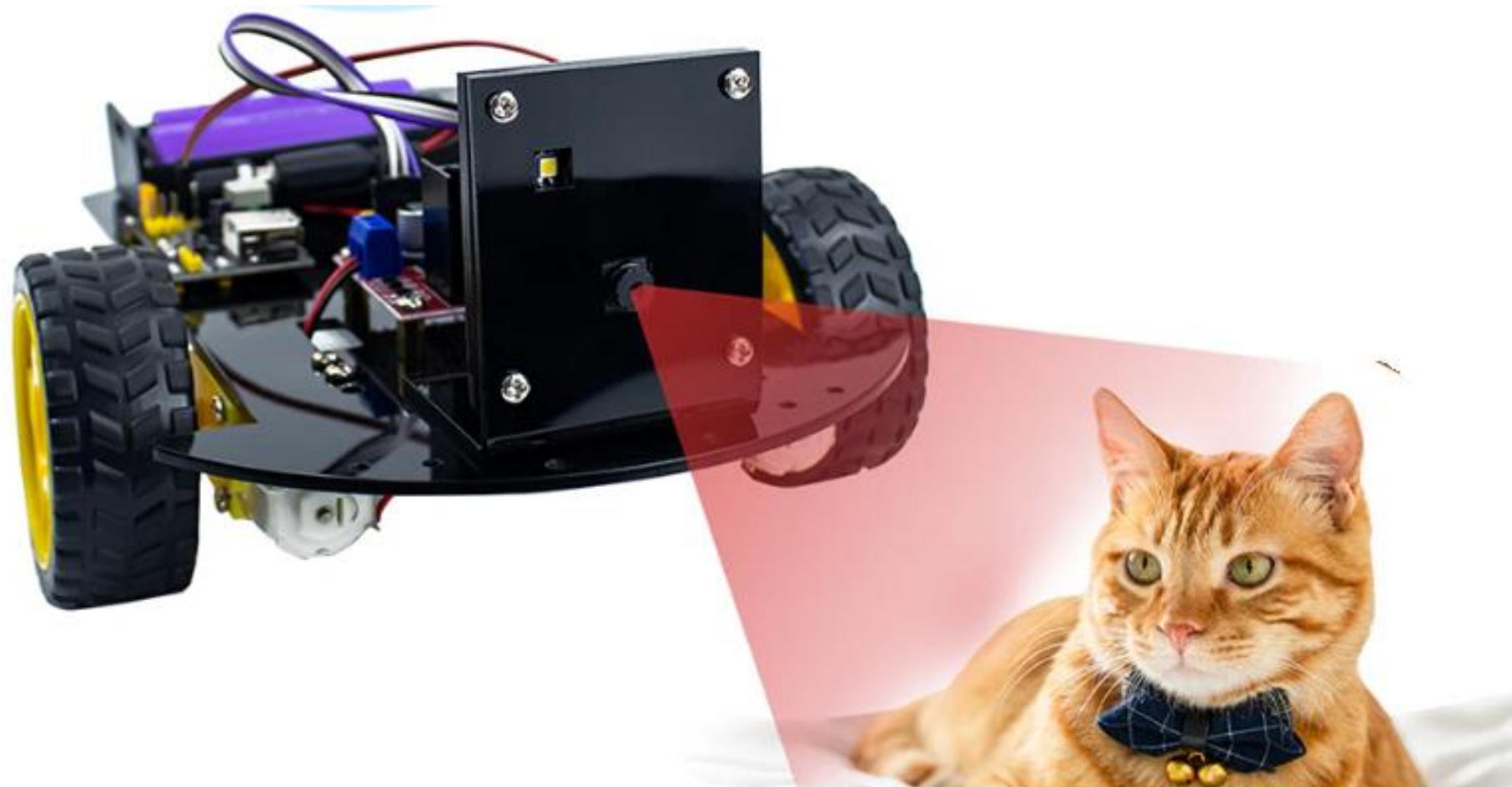
7/8/2023

이상원

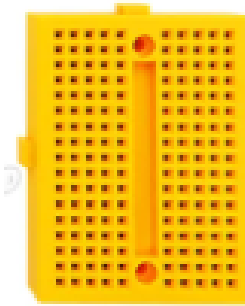
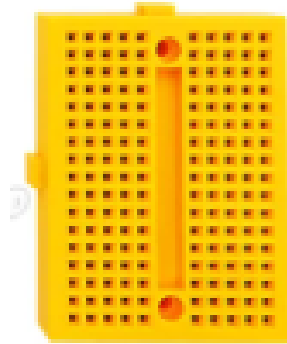
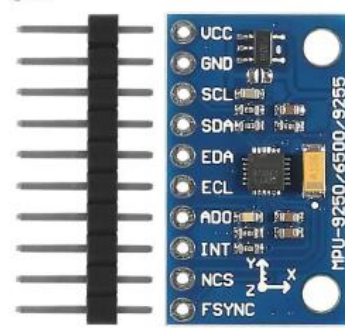
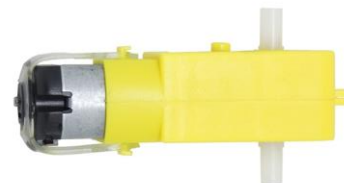
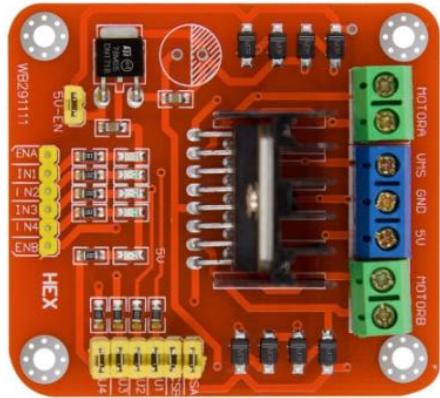
목 차

- 1차 로봇 시스템
- 1차 로봇 부품 구성
- 1차 로봇 목표 성능
- 2차 로봇 목표 성능

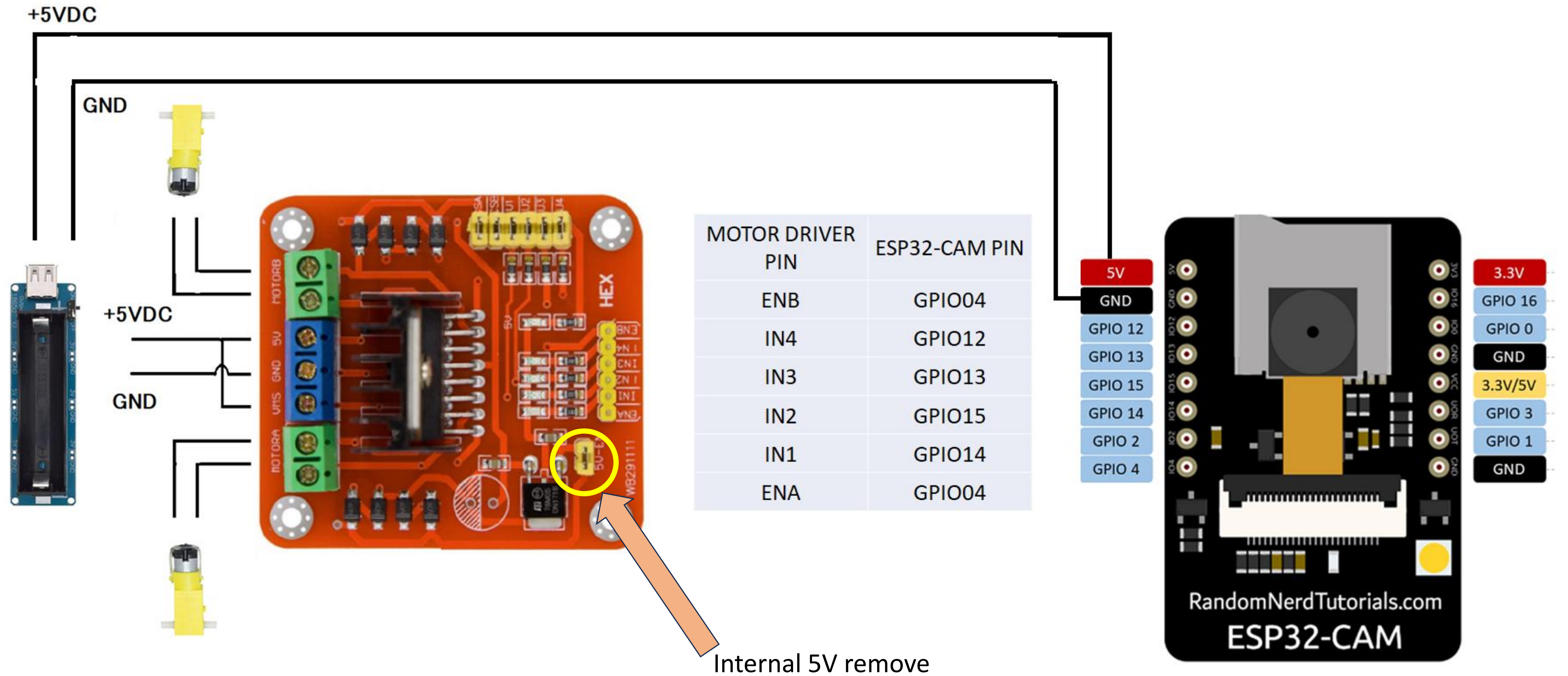
System Configuration



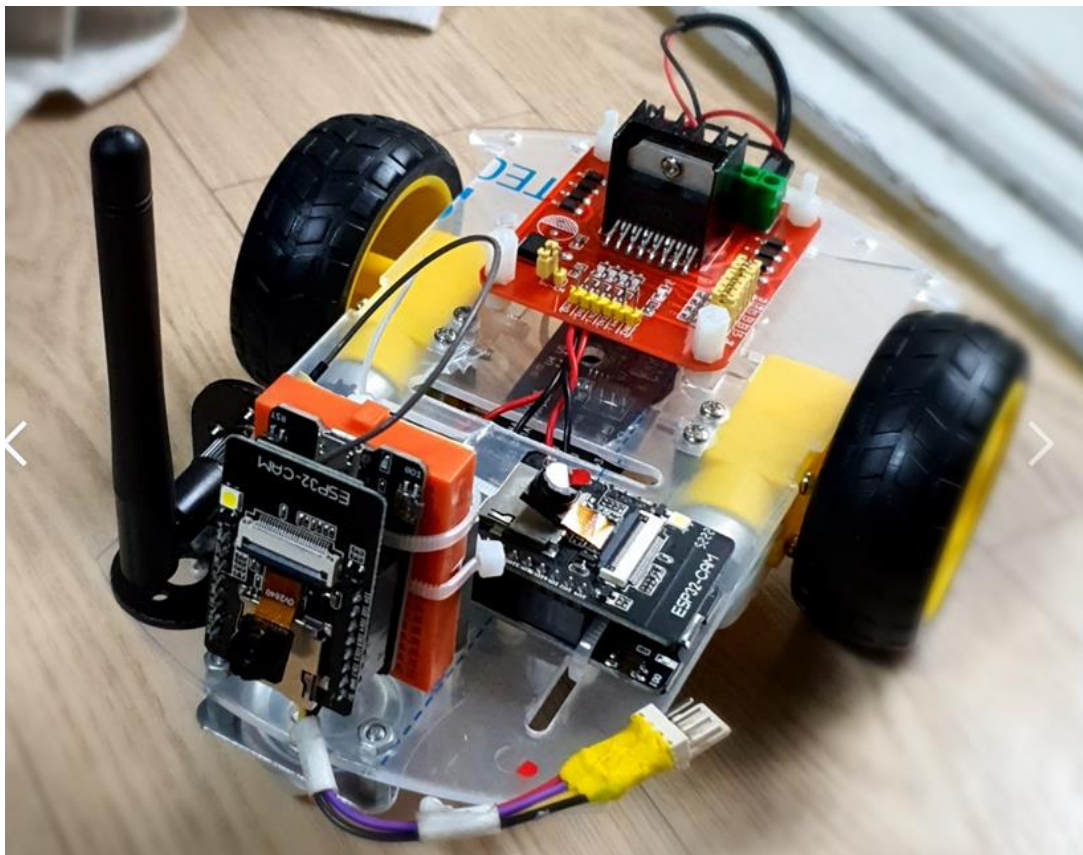
로봇 부품 구성



로봇 배선도

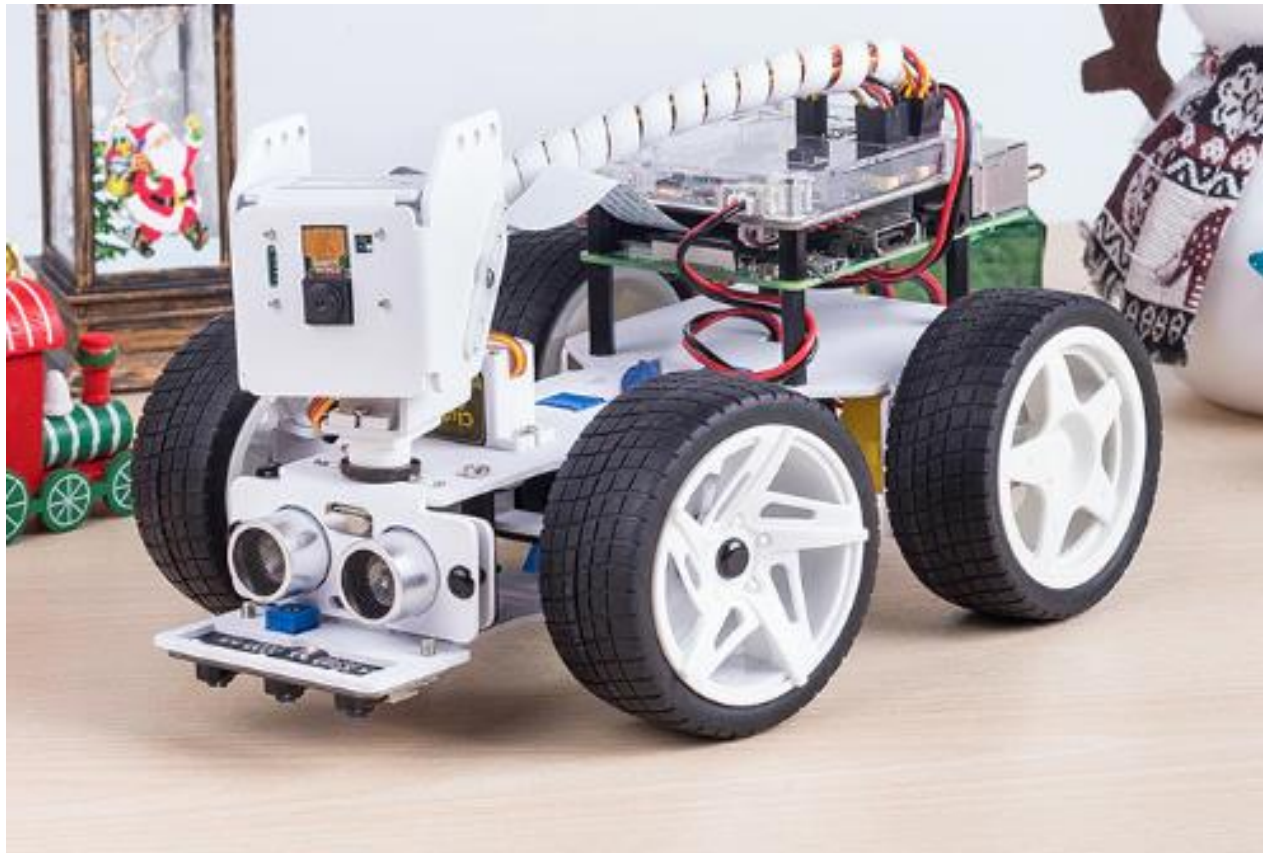


1차 로봇 목표 성능



- ❑ ESP32-CAM controller and camera
- ❑ 5V supply only
- ❑ 2WD PWM control without speed sensor
- ❑ Motion Control Through Camera Web Server
- ❑ Simple Machine Learning – line tracing, sign recognition, etc.

2차 로봇 목표 성능



- ❑ Raspberry Pi 4B
- ❑ Raspberry Pi CAM
- ❑ 12V or 11.1V Lipo battery + power board
- ❑ 2WD or 4WD with speed sensor
- ❑ IMU and LIDAR
- ❑ Faster ML (compared with 1st robot)