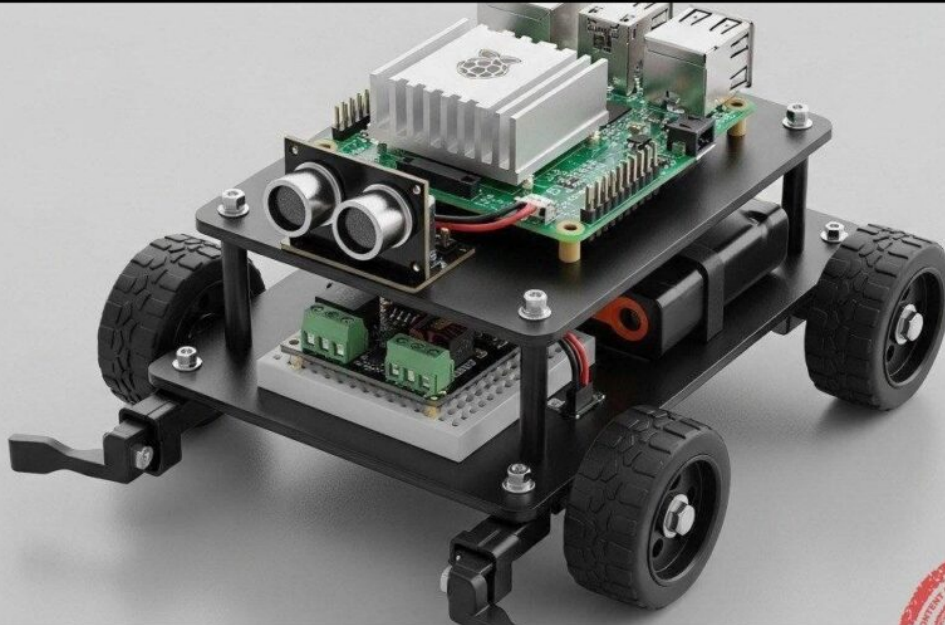


Practical case: safe UGV teleop with Raspberry Pi

Safe UGV teleop with Raspberry Pi



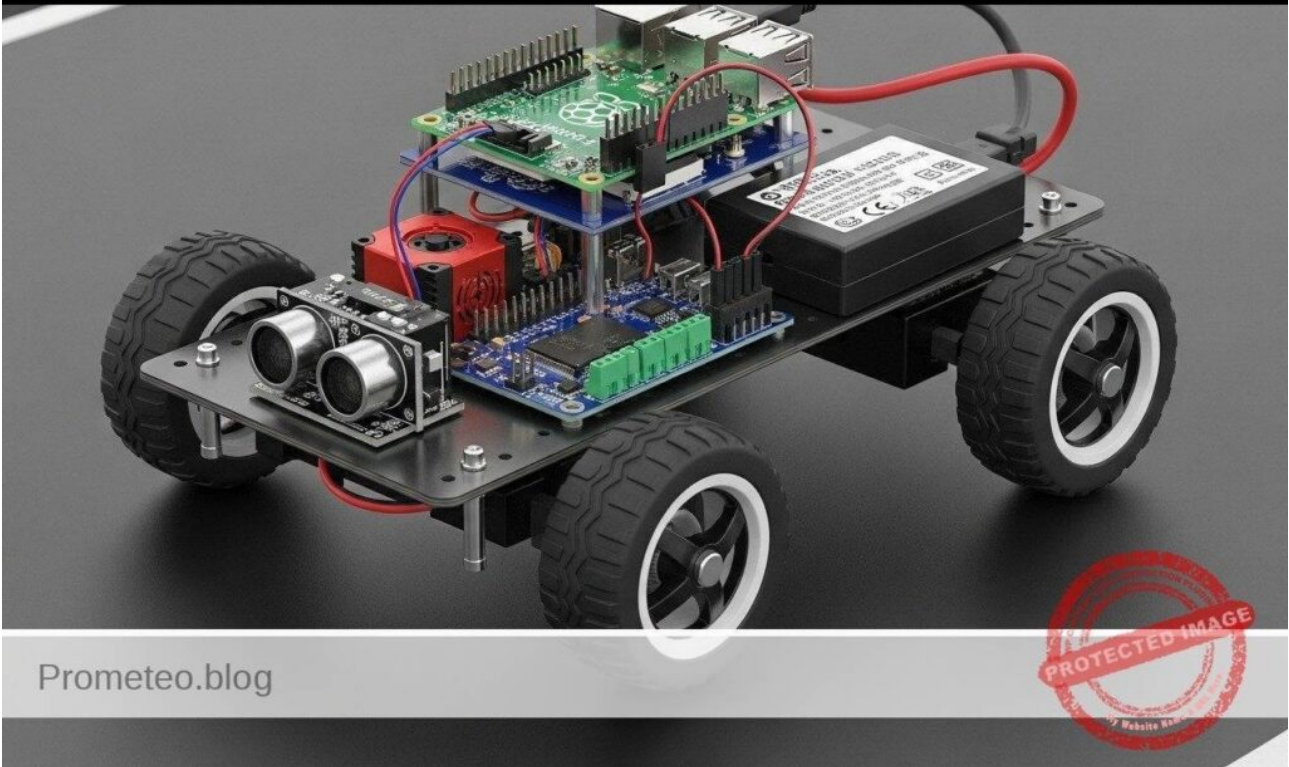
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A fail-safe teleoperated Unmanned Ground Vehicle UGV prototype that accepts directional commands but automatically halts forward motion if a physical front...

Practical case: UGV speed logger with Raspberry Pi

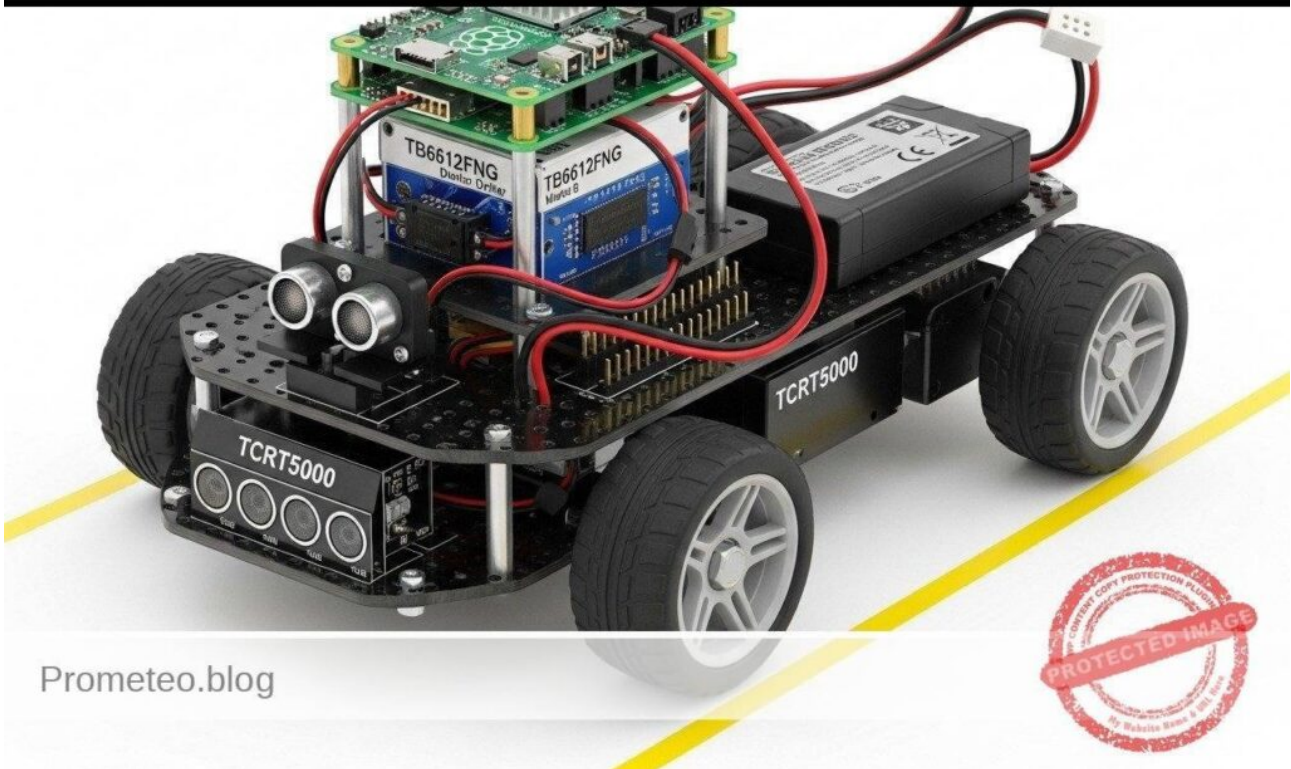
UGV speed logger with Raspberry Pi



A Python-based speed logging tool for a Raspberry Pi 5 UGV that systematically sweeps motor power via a PCA9685 PWM HAT and TB6612FNG driver. It records...

Practical case: UGV line follower with Raspberry Pi

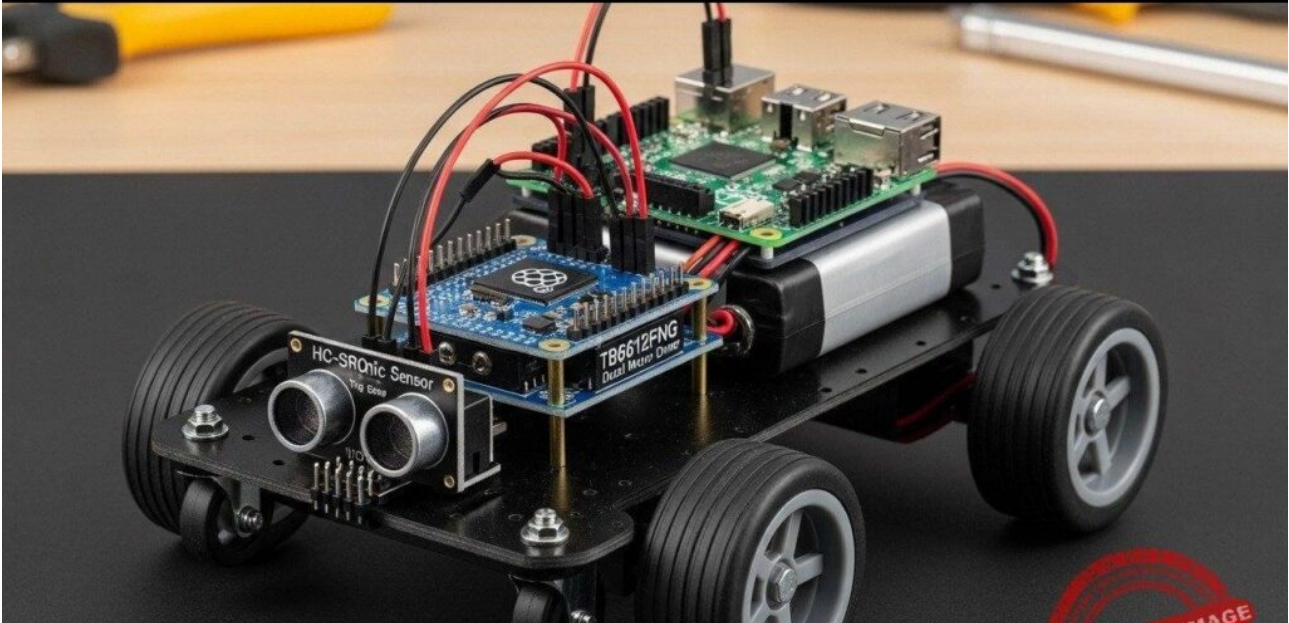
UGV line follower with Raspberry Pi



You will build a track-guided Unmanned Ground Vehicle UGV prototype that utilizes infrared reflectance sensors to autonomously navigate a high-contrast path....

Practical case: UGV obstacle stop with Raspberry Pi

UGV obstacle stop with Raspberry Pi



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A prototype 2WD automated guided vehicle AGV that continuously drives forward and executes a low-latency emergency halt when an obstacle is detected within...

Practical case: ESP32 Secure Access Panel

ESP32 Secure Access Panel



A functional prototype of a secure access panel utilizing the ESP32's built-in capacitive touch sensing, visual LED indicators, and acoustic buzzer feedback....

Practical case: ESP32 BLE Presence Beacon

ESP32 BLE Presence Beacon



A standalone Bluetooth Low Energy BLE room presence beacon that broadcasts occupancy status, toggled via a physical pushbutton and displayed locally via a...