

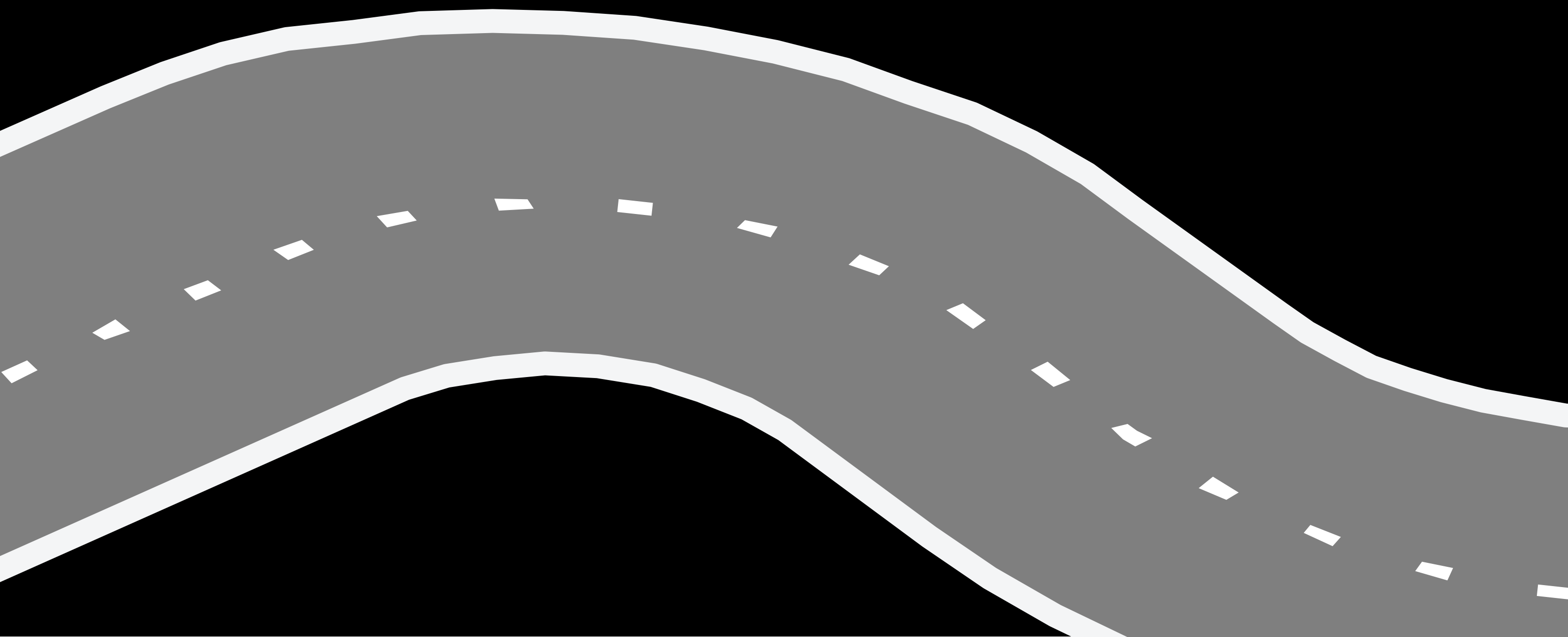


**inventorz.ae**

INVENTING INVENTORS

**Inventor's**

**Roadmap**

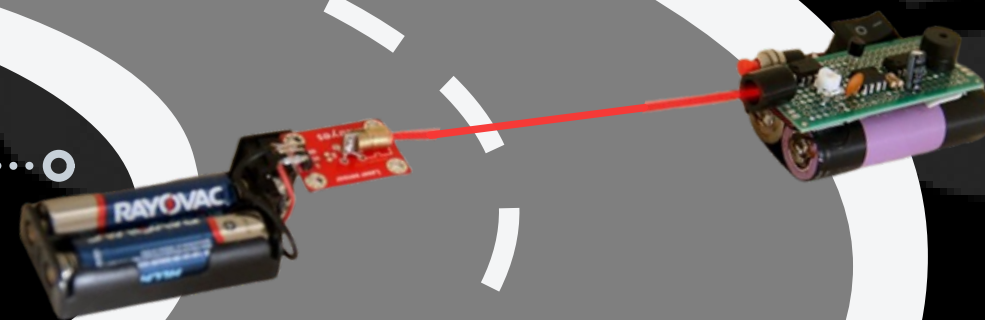


# Level 1 : Beginner

## Basics

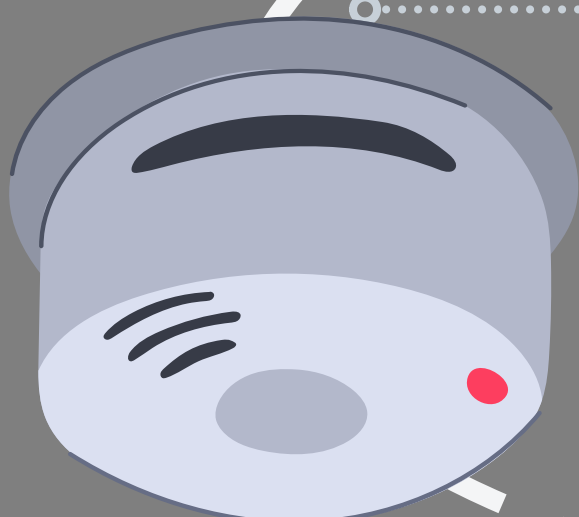
### Mission 1 : Laser Tripwire

Build a high-tech security beam that triggers a loud alarm the moment an intruder sneaks into your room.



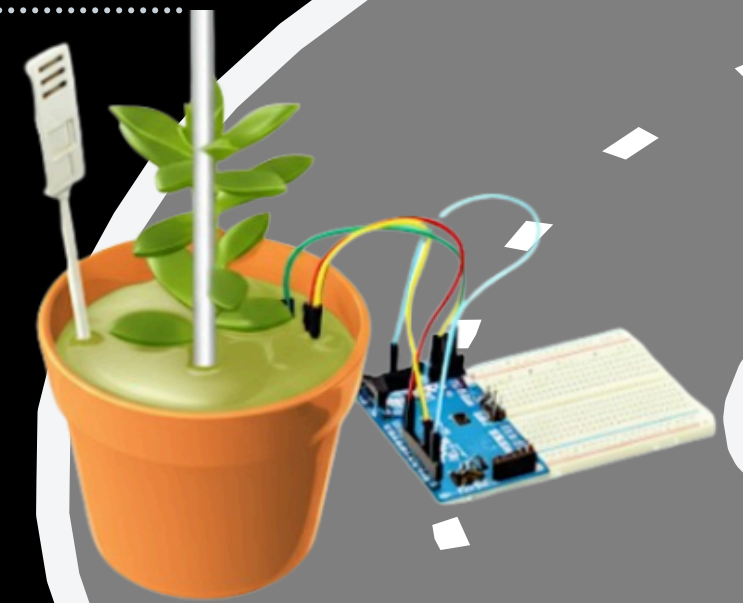
### Mission 2: Flame Sensor Alarm

Create a life-saving safety system that sniffs out fire and sounds a siren to protect your home.



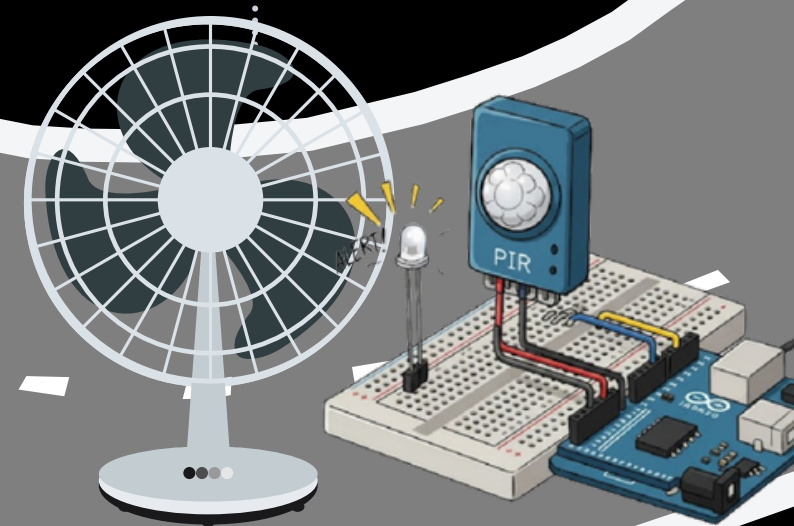
## Mission 3: Self Watering Plant

Build a smart hydration station that monitors your plant's thirst and pumps water automatically.



## Mission 4: Motion Sensing Smart Fan

Construct a fan that detects when you walk in and spins up to keep you chilly without touching a switch.



# Level 2 : Smart Systems

## Mission 1: Smart Traffic Light

Master the city streets by coding a realistic 3-color signal system with a working pedestrian crossing button.

## Mission 2: Gas Leak Alert System

Build a digital nose that can detect dangerous gases and provide an instant visual and audio warning.



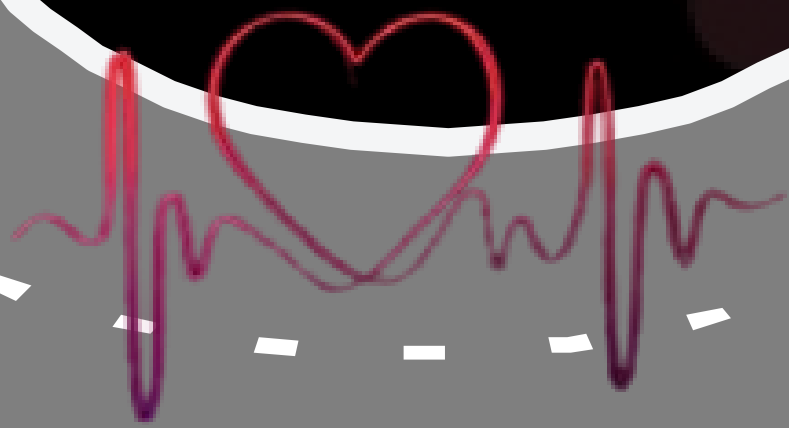
### Mission 3: Smart Cooler

Build an automated cooling box that monitors heat and kicks its fan into gear only when it gets too toasty.



### Mission 4: Heart Pulse

Work with a pulse sensor to build a device that monitors heart rate.

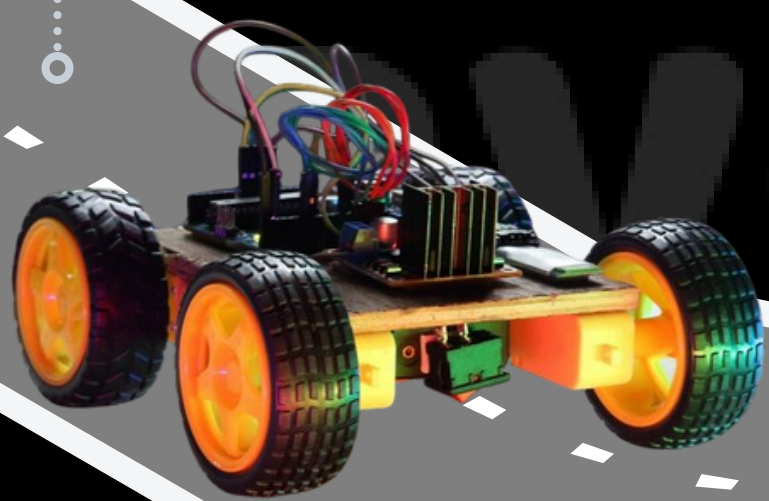


# Level 3 : Robotics

# Foundations

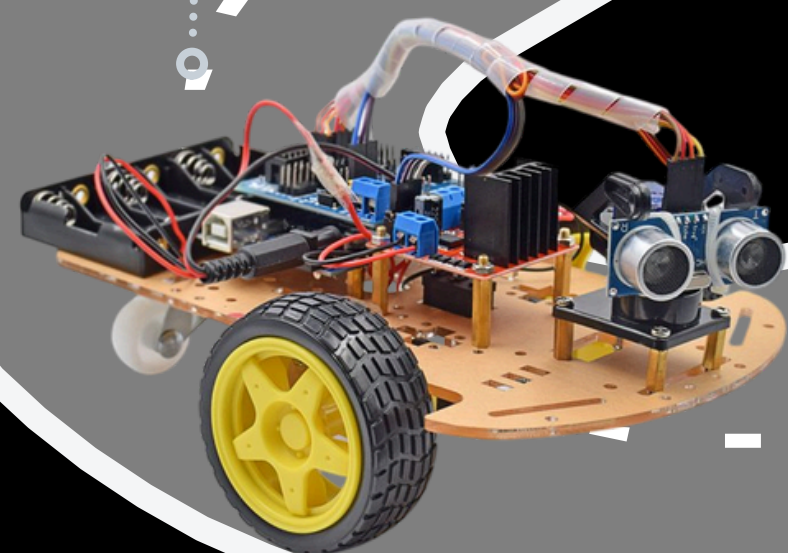
## Mission 1: Joystick Controlled Car

Build a high-speed racing machine that you steer with total 360-degree precision using an analog joystick.



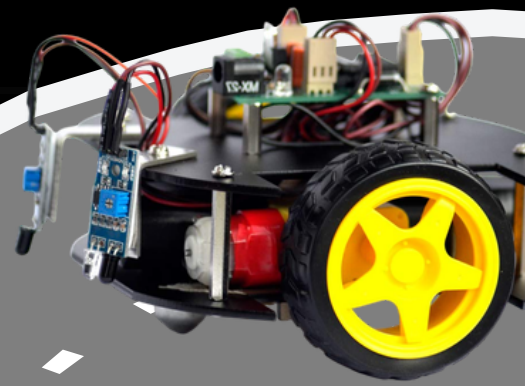
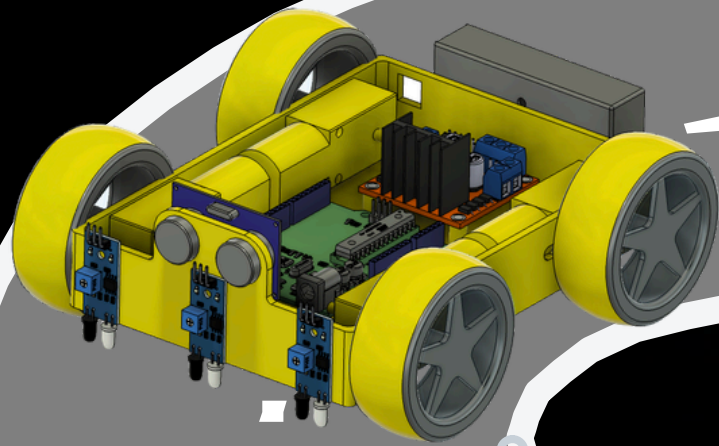
## Mission 2: Obstacle Dodging Bot

Give your robot ultrasonic "eyes" so it can explore your house and dodge walls entirely on its own.



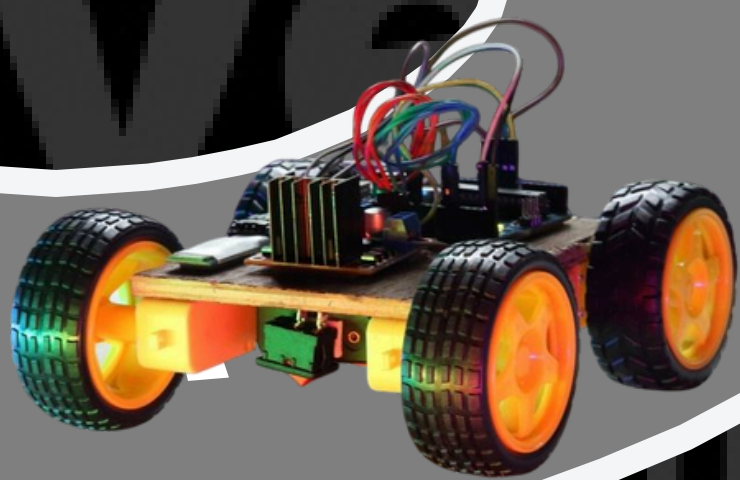
### **Mission 3: Line Following Robot**

A clever bot that follows a black line on the floor, perfect for racing or delivering tiny packages along a path!



### **Mission 4: The Sentinel Prime (Integrated Car)**

Build the ultimate explorer by merging all previous navigation technologies into one super-powered robot.



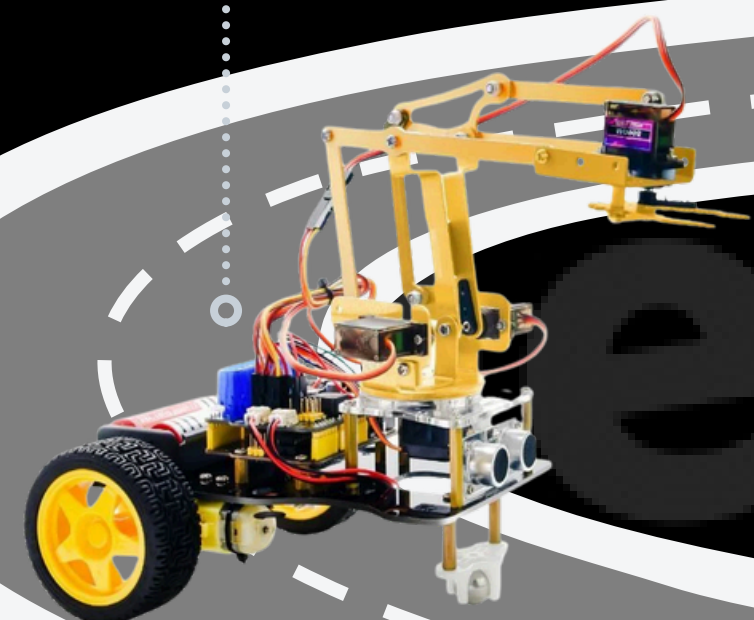
### **Mission 5: Bluetooth Cruiser**

Upgrade your ride into a wireless powerhouse that you can pilot from across the room using your smartphone.

# Level 4: Mobile App-Connected Devices

## Mission 1: The Logistics Rover (WiFi Robotic Arm Car)

Build the ultimate utility vehicle featuring a mechanical claw that picks up and carries objects via remote control.



## Mission 2: Autonomous Fire Fighting Robot

Create a hero robot that hunts for fire, aims its water nozzle, and pumps out water to save the day.



### Mission 3: Mobile Weather Station

Build a portable climate lab that sends real-time data to your phone through a custom app

### Mission 4: AI Powered Smart Home Automation

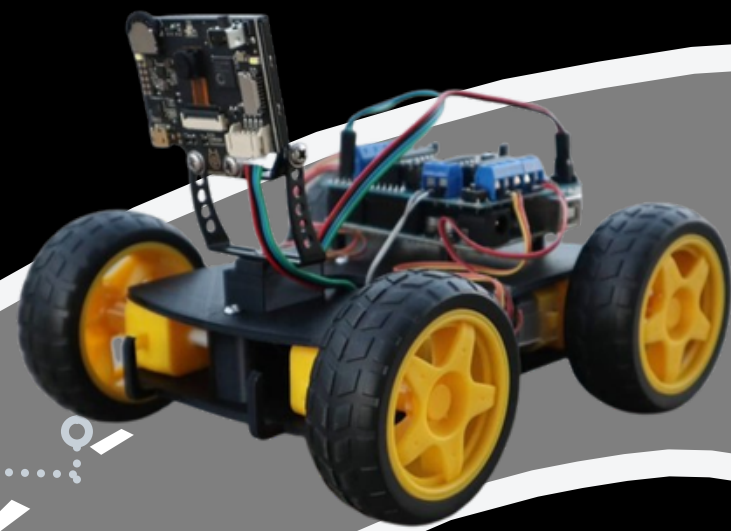
Construct a home hub that uses voice commands and AI-driven logic to control your appliances.



# Level 5: AI-Powered Robotics

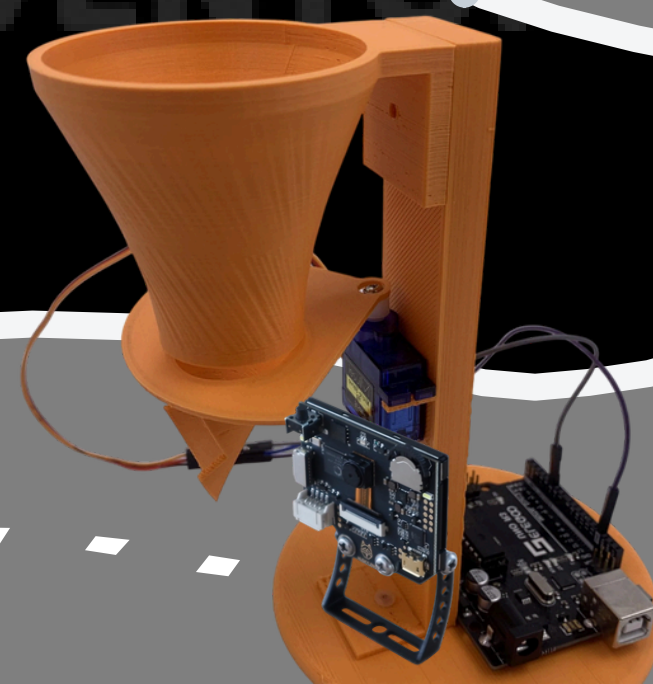
## Mission 1: AI-Powered Object-Chasing Robot

Students create a robot that uses AI to spot and follow objects, like a pet that chases toys!



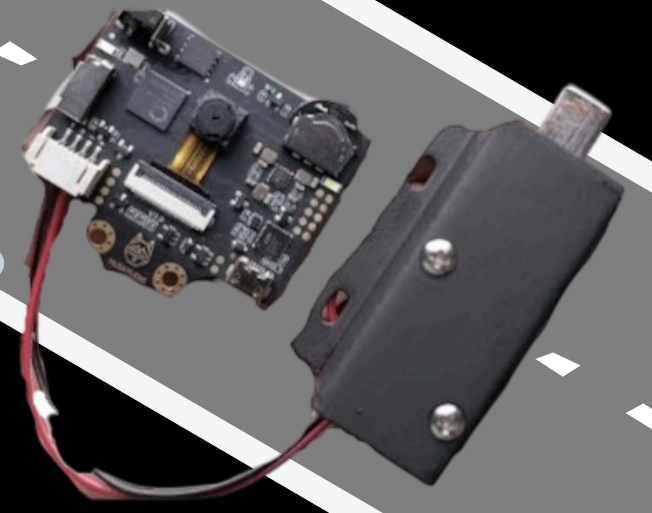
## Mission 2: AI-Powered Pet Food Dispenser

This smart feeder uses AI to recognize different pets and dispense the correct food—keeping dogs and cats happy with their favorite meals!



## **Mission 3: AI-Powered Face-Recognition Lock**

An advanced lock that only opens for recognized faces, providing top-notch security with AI technology!



## **Mission 4: AI-Powered Emotion based Mood Light**

Students build a colorful light that changes based on different emotions shown in the face, controlled by AI for a personalized ambiance!



## **Mission 5: AI-Powered Face-Tracking Fan**

A fan that uses AI to follow your face, keeping you cool wherever you are.

It even turns off when no one is around to save energy and points directly at you when someone is present!

