

## Autonomous Car

**60 minutes****Designing and Building for the Future**

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### WHAT THIS LESSON DOES

Discover the world of ultrasonic sensors with your Move Motor car. Learn how these sensors measure distance, and apply this knowledge to create a project that enables your car to follow an object, reverse, and roam freely while avoiding obstacles. Enhance your car's capabilities by adding lights and improving its sensor range.

### WHAT STUDENTS SHOULD BE ABLE TO DO

- Understand the function and operation of ultrasonic sensors.
- Develop skills in creating a new project using the kitronik-move-motor extension.
- Acquire the ability to program a sensor to measure distance.
- Learn to code a car to maintain a specific distance from an object.
- Enhance problem-solving skills by programming the car to reverse and maintain distance.

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### HOW THE LESSON RUNS

Introduction

Create a new project

Measure distance

Follow an object

Reverse

Free roaming

Improve and add lights