LESSON 39

Tilt Remote Control Car

60 minutes | Designing and Building for the Future

WHAT THIS LESSON DOES

In this step-by-step lesson, you'll learn to control a Move Motor car using a Microbit as a remote controller. You'll program the Microbit to send directional commands to the car based on its tilt. You'll also create code for the car to respond to these commands, resulting in a fully remote-controlled car.

WHAT STUDENTS SHOULD BE ABLE TO DO

- Understand and apply the concept of radio communication between two Microbits.
- Programme a Microbit to send specific messages based on different gestures.
- Develop the ability to programme a Move Motor car to respond to different messages received.
- Test and debug the code to ensure the car responds correctly to the remote control.
- Extend the project by adding additional features such as LED light changes.

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HOW THE LESSON RUNS

- Introduction
- Program the remote
- Send message 'forward'
- Send messages 'left', 'right' & 'reverse'
- Send message 'stop'
- Download the code
- Create a new project
- Receive message 'forward'
- Receive message 'left'
- Receive message 'right'
- Receive message 'reverse'
- Receive message 'stop'
- Download the code
- Challenge