



Smart Robot V2 - Altronics Z6454

23 Example Codes

Features

- 1 hour build time
- Code using Microsoft's MakeCode either with Block Code or JavaScript
- micro:bit can also be coded in Scratch & Python Script
- Wirelessly flash pre-made code over Bluetooth direct from a Tablet or Phone
- Use the BBC micro:bit board as a standalone for 100's of other STEM projects.
- micro:bit v2 features accelerometer, temperature, light sensor, touch sensor, matrix display, 2 buttons, magnetometer (compass) on board speaker and microphone, Bluetooth, micro:bit 2.4ghz radio.
- Program from MakeCode URL and save or upload direct to your micro:bit powered robot.
- Run micro:bit simulations direct in the MakeCode Space before uploading.



Step by Step Guide



Z6454 Smart Robot v2 - powered by micro:bit

Code can be downloaded direct to the micro:bit from the MakeCode URL on PC

Step by Step Lesson Repository including all .hex code can be found

<https://github.com/AltronicsAUKits/K6454> 23 Lesson Examples and Hex Files

← or by using the QR Code located on the left

Z6454 - Lesson 1.0 - Passive Buzzer Control
Z6454 - Lesson 2.1 - RGB LED Experiment
Z6454 - Lesson 2.2 - RGB LED Variable Brightness Control
Z6454 - Lesson 3.1 - LED Neopixel Module Control Experiment 1
Z6454 - Lesson 3.2 - LED Neopixel Module Control Experiment 2
Z6454 - Lesson 3.3 - LED Neopixel Module Control Experiment 3
Z6454 - Lesson 3.4 - LED Neopixel Module Control Experiment 4
Z6454 - Lesson 4.1 - Photosensor Datalogging
Z6454 - Lesson 4.2 - Photosensor Demo
Z6454 - Lesson 5.1 - Robot Motor Driving Experiment 1
Z6454 - Lesson 5.2 - Robot Motor Driving Experiment 2
Z6454 - Lesson 6.1 - Line Tracking Sensor Datalogging
Z6454 - Lesson 6.2 - Line Tracking Sensor Display
Z6454 - Lesson 6.3 - Line Tracking Datalogging & Display
Z6454 - Lesson 6.4 - Line Tracking Smart Robot Demo
Z6454 - Lesson 7.1 - Ultrasonic Ranging Datalogging
Z6454 - Lesson 7.2 - Ultrasonic Follow Smart Robot
Z6454 - Lesson 8.1 - Infrared Obstacle Sensor Datalogging
Z6454 - Lesson 8.2 - Infrared Obstacle Avoidance Display
Z6454 - Lesson 8.3 - Infrared & Ultrasonic Avoidance Demo
Z6454 - Lesson 8.4 - Infrared & Ultrasonic Follow Smart Robot
Z6454 - Lesson 9.1 - IR Remote Datalogging
Z6454 - Lesson 9.2 - IR Remote Control Smart Robot Demo









<https://makecode.microbit.org/18429-56003-51155-13829>
<https://makecode.microbit.org/57029-12429-02514-70866>
<https://makecode.microbit.org/49566-93471-52442-44627>
<https://makecode.microbit.org/90016-58359-45100-17529>
<https://makecode.microbit.org/91949-51471-45725-10543>
<https://makecode.microbit.org/52843-69175-24338-64710>
<https://makecode.microbit.org/12086-93822-28126-97044>
<https://makecode.microbit.org/27401-49539-36169-24475>
<https://makecode.microbit.org/70425-35912-57266-50967>
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<https://makecode.microbit.org/34159-52615-23509-28623>
<https://makecode.microbit.org/12700-42347-40670-91799>
<https://makecode.microbit.org/80969-99869-48260-41091>
<https://makecode.microbit.org/84520-83000-36608-14213>

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Lesson 6.2 Simulation



Lesson 6.3 Simulation



Lesson 6.4 Simulation



Lesson 7.1 Simulation



Lesson 7.2 Simulation







Lesson 8.1 Simulation



Lesson 8.2 Simulation



Lesson 8.3 Simulation



Complete Presentation

