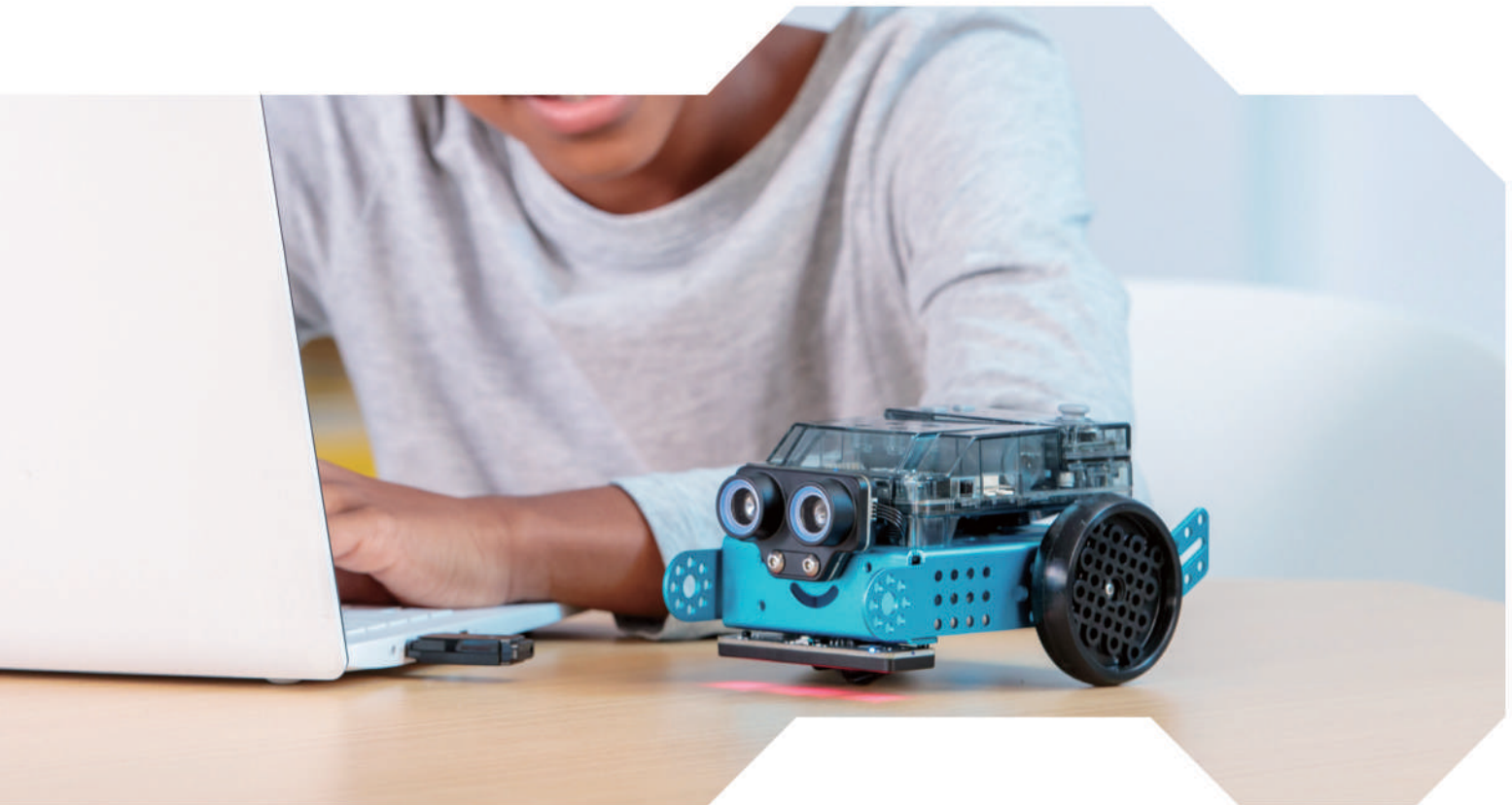




mBot2

Networkable Robot for Computer Science and STEAM Education

mBot2 is a next-generation educational robot designed with extended capabilities, starting as an entry-level solution in secondary education and offering room for growth beyond. It is powered by Cyber-Pi, an educational microcontroller enhanced with network capabilities, built-in sensors and much more. With mBot2, educators can carry out interactive and smart lessons that are engaging and reflect real-world applications, with cutting-edge technologies like AI and IoT.



STEAM
education

Science
Technology
Engineering
Art
Mathematics

Python+Scratch
PC/Mac/Chromebook/Smart Phone/Tablet



ide.mblock.cc



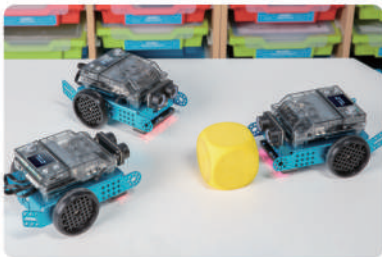
Powered by CyberPi supporting AI & IoT applications

CyberPi is a powerful and versatile microcontroller for education. Its integrated sensors, full-color display and Wi-Fi communication capabilities allow a wide range of applications on curriculum topics for Computer Science, Robotics, Data Science and Artificial Intelligence, in connection with other areas of the curriculum such as Math, Physics, etc.



Easy step into CS and Technology learning with mBlock

With mBlock's enhanced coding learning experience, mBot2 allows students and educators to begin with the block-based coding approach, and seamlessly transition into object-oriented coding with Python, all in the same environment.



Precision in movement control

The encoder motors in mBot2 can be precisely controlled by their rotation, speed and position, making possible the integration of principles in Math, Physics and Engineering.



Integrated rechargeable battery.



Next-generation Ultrasonic sensor and Quad color sensor for better performance.



Expanded with Makeblock Education's wide variety of mBuild Smart Electronic Modules and Structural parts.

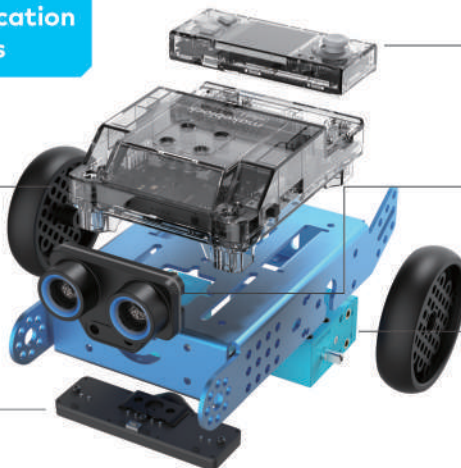
Next generation robot for STEAM education All-around performance improvements

mBot2 Shield

Compatible with a variety of external components, and includes a built-in lithium-ion battery.

Quad Color Sensor

Detecting colors while following lines on four spots at the same time, giving extremely accurate performance and consistency.



CyberPi

ESP32 microprocessor for wireless communication, and compatibility with block-based and Python coding.

Ultrasonic Sensor 2

Object detection is accompanied with 8 programmable LEDs for an enhanced interaction.

Encoder Motors

1 degree detection accuracy, distance traveled, and up to 200 RPM can be precisely controlled.

Getting Started Activities Easy-to-follow for educators and students

mBot2 is accompanied with a collection of lessons that help educators and students discover the possibilities that mBot2 has. These are the Getting Started Activities: engaging and accessible to support educators and inspire students.

Lesson 1

Lesson 2

Lesson 3

Lesson 4

makeblock
education