



**Actual STEM,
serious fun**

 **CircuitMess**
WHEELSON



Wheelson

MSRP

119 USD

Build & code your own AI self-driving car

Wheelson is a small DIY self-driving car that uses electromotors and microcomputers to autonomously navigate while driving.

HOW IT WORKS?

-  **1** Assemble your own autonomous vehicle
-  **2** Take it for a test drive
-  **3** Enable autonomous driving mode
-  **4** Code your own program for Wheelson



✗ What educational toys should NOT do:

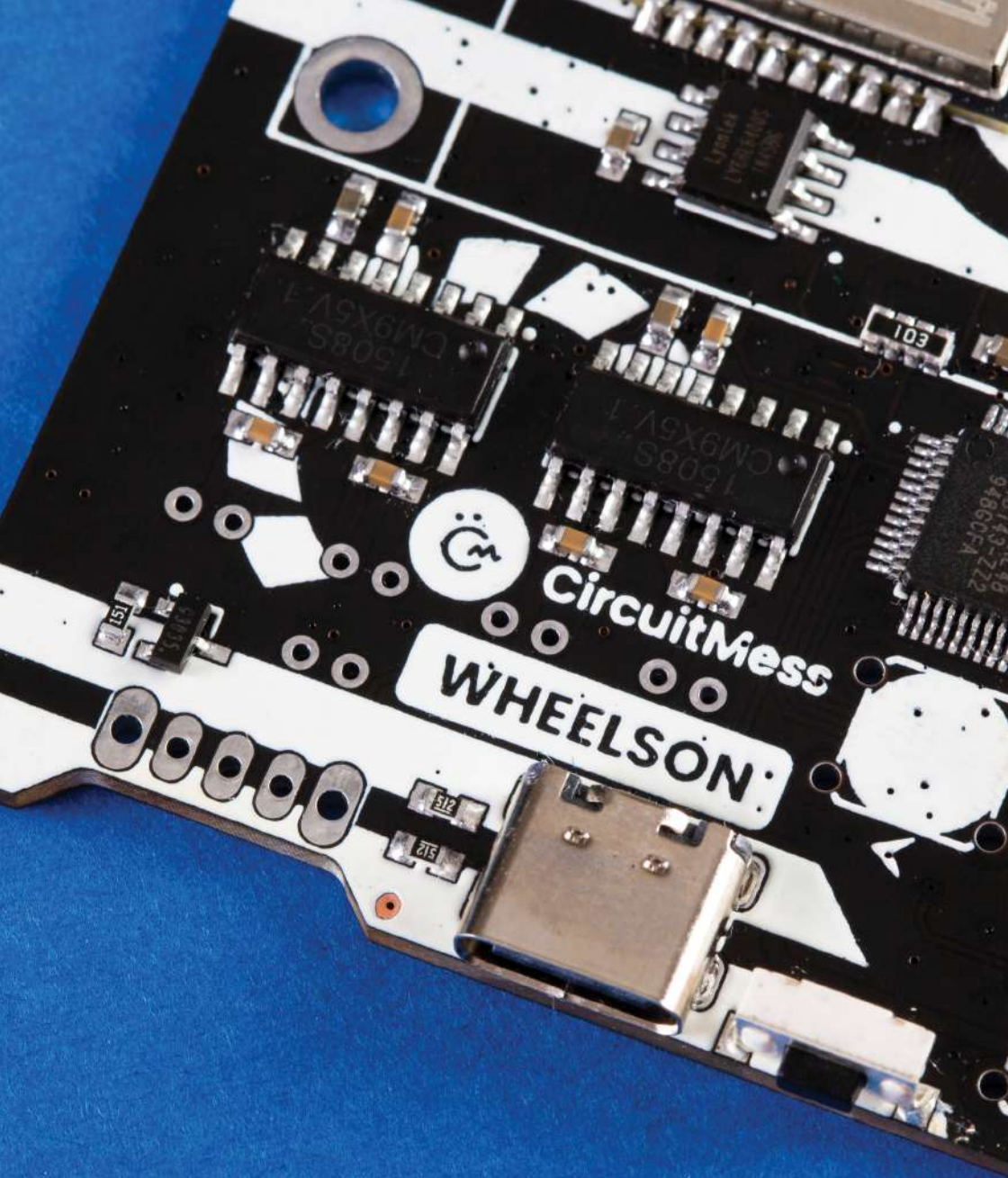
- Lack actual useful educational content
- Be a label for cheap regular toys
- Enforce gender stereotypes



✓ What educational toys should do:

- Teach you actual science
- Provide hours of building and infinite enjoyment
- Provide real-world application





You'll learn about hardware



Learn how to assemble a small **4-wheeled robot**



Learn about the **main components** of an autonomous car



Learn about **electromotors** and how Wheelson's battery management circuits work



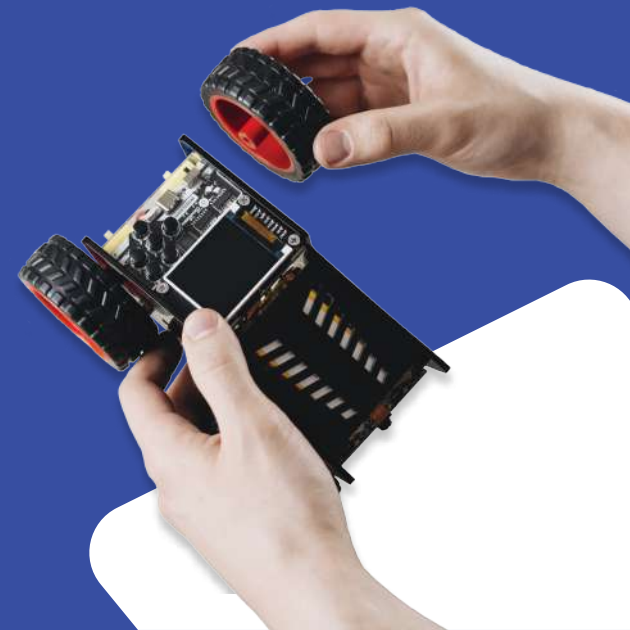
Learn about Wheelson's **sensors** and how you can calibrate its camera for efficient driving



**~3 hours
build time**

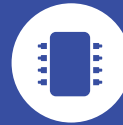


Ages 11+





You'll learn about software



Learn how to control an electromotor using a **microcomputer**



Learn how autonomous cars work and how to make your car navigate a road **autonomously**



Learn how to recognize and scan a QR code using your **robot's camera**



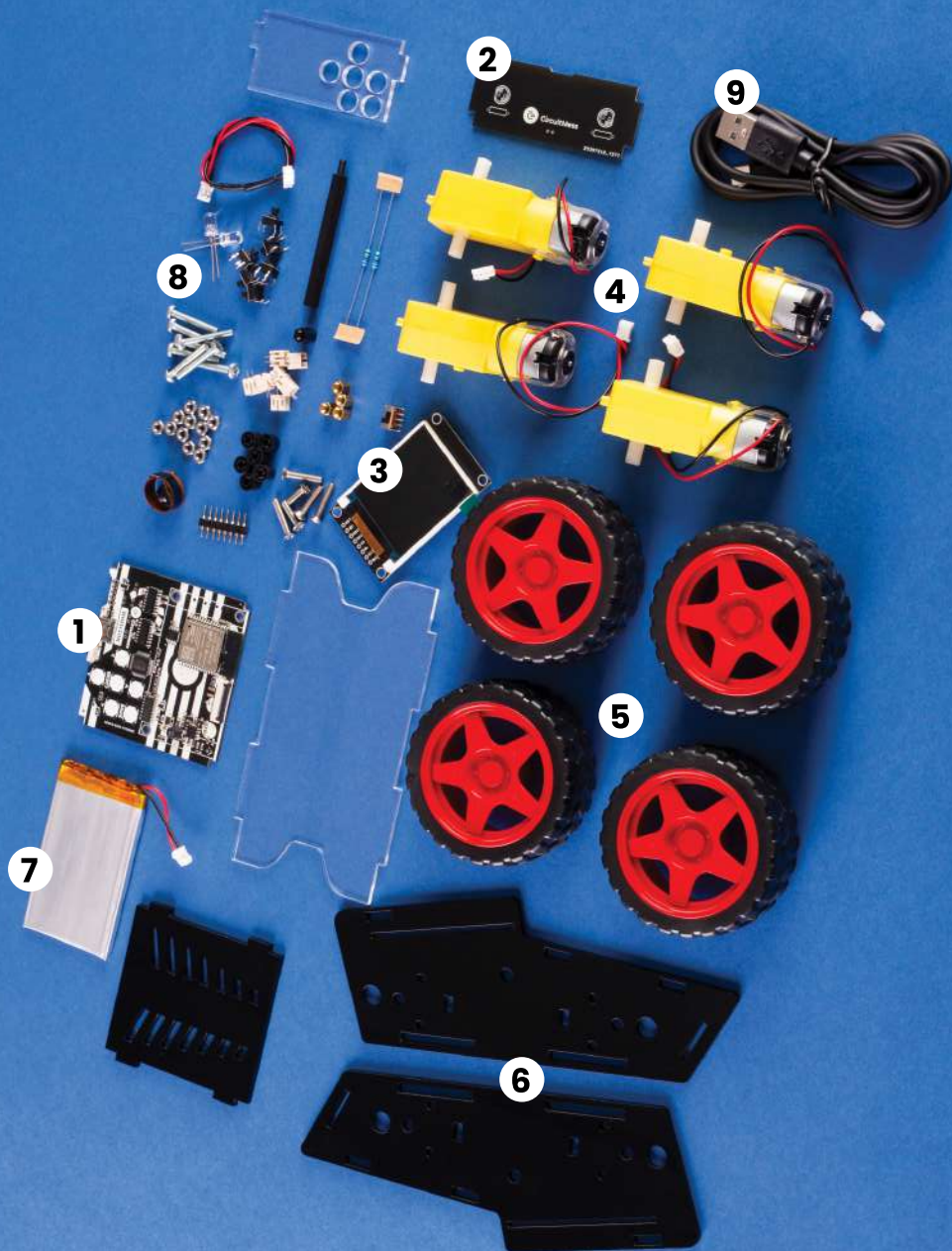
Learn how to recognize different objects using a camera and **image processing algorithms**



10 hours of learning



Infinite fun



What's inside the box?

- | | | | | | |
|---|---|-----------------------------|---|--|--|
| 1 |  | Main circuit board | 6 |  | Plastic chassis |
| 2 |  | Camera and headlights board | 7 |  | Li-Po battery |
| 3 |  | Display board | 8 |  | Bag of small components |
| 4 |  | Four electromotors | 9 |  | USB-C cable for charging and programming |
| 5 |  | Wheels | | | |





Things you can do with Wheelson as soon as you assemble him

- Drive your newly assembled robot buddy around
- Code Wheelson to drive autonomously using its camera
- Make it recognize QR codes and flash the built-in RGB LED
- Make a custom program in CircuitBlocks
- Play with built-in line tracking and object recognition algorithms

Getting started with coding has never been easier

You can code Wheelson in CircuitBlocks – our custom-made code editor similar to Scratch that makes it easy for beginners to get into physical computing.

 **Circuit** **BLOCKS**

 **Logic blocks**

 **C++ coding**



The background of the entire page is a collage of various electronic components and a small robot car. The collage is set against a dark blue background with white, rounded rectangular shapes that look like document pages. The components include a small robot car with a black body and red wheels, a breadboard with various electronic components, a small circuit board, and several individual components like resistors, capacitors, and integrated circuits. The robot car is shown in different positions, sometimes being assembled or disassembled by hands.

Get instructions from our custom-made curriculum



15+ hours of
content



Teacher and
student friendly



Structured
lessons

3 main topics

Get to know electronics through hands-on activities.
Assemble the kit and create your own apps and games.



Assembly

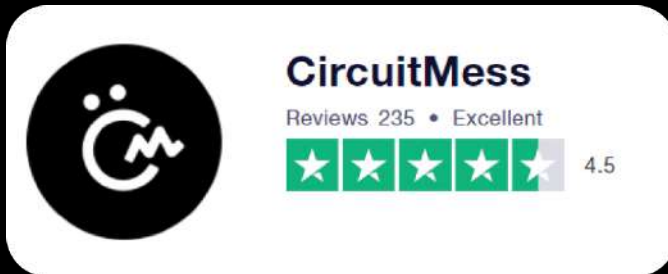


Electronics



Programming

People all around the world love it!



Mladen Stanke, Croatia

Great products. Instructive, interesting. The games are great for both seniors and juniors. The support is great. Fast, concrete, staff friendly. Well done.



Matt, Germany

Great products with a fantastic message. Fast delivery. A joy to use and play with for kids and adults as well.



Francis Ellington, USA

More was provided than I expected, most especially the customer service, which I utilized to a fair degree, and they were helping 100% of the way!

As seen in media



Mashable

"It is surprisingly cool looking and unmistakably retro."



Forbes

"What sells MAKERbuino is the sense of satisfaction, accomplishment, and ownership that comes with assembling your own game console from scratch."



Tech Crunch

"It's a fun project and maybe you could make it your weird home messaging machine. I don't know. Be creative."

\$400k+ raised on Kickstarter



\$408,749

raised out of a \$15,000 goal

2,001

backers



orders@circuitmess.com

