

New STEM training technology

# How to raise an inventor

Technology and engineering learning  
material for schools

## The Art of Making

The LEGO Mindstorms EV3 course, prepared in cooperation with RoboCamp, leading robotics curriculum provider, consists of 4 guided projects (Spirograph, Line follower, Drawer, Plotter) with detailed, step-by-step building and programming instructions and 1 open project (Robotic arm) where students design, build and program a robot themselves and test its operation in a classroom competition.



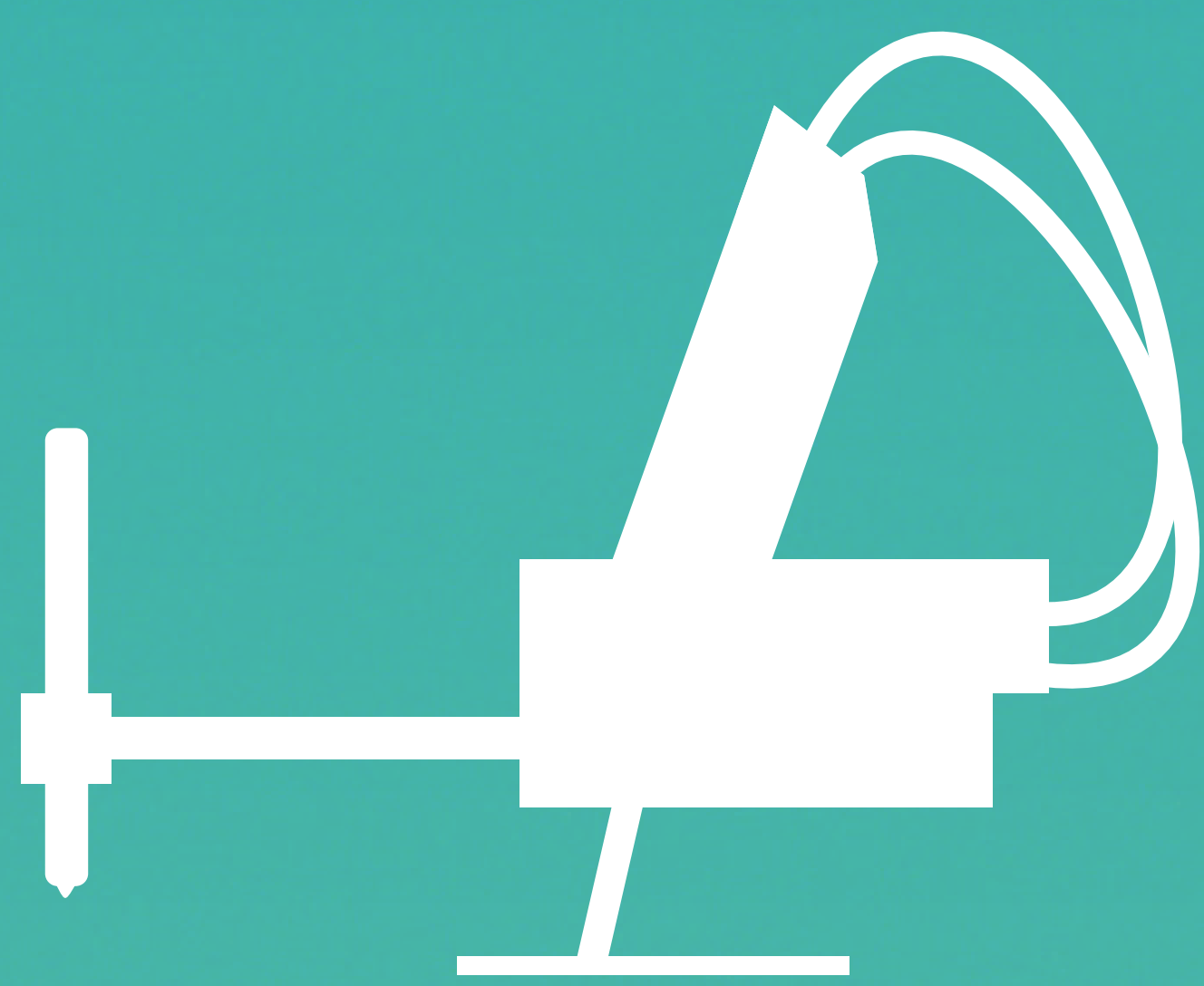
### SPIROGRAPH

Start with a simple automated drawing machine. Modify its program and use pens in various colors to produce some amazing patterns.



### LINE FOLLOWER

Build a vehicle, program it using two different algorithms and learn how the color sensor can be used in robotics and applied science.



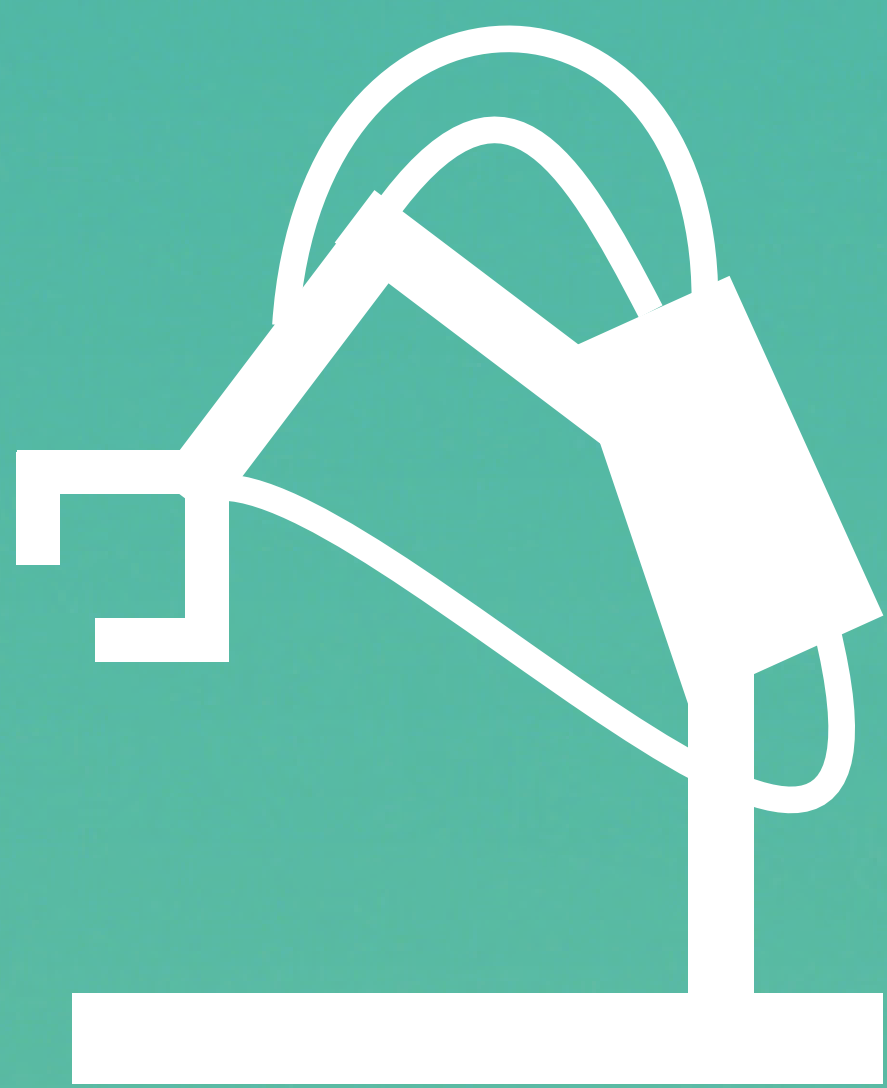
### DRAWER

Create a precise drawing machine with ability to produce complex patterns and learn about the importance of technical drawing in design at the same time.



### PLOTTER

Assemble an amazing machine that will automatically trace mesmerising patterns onto paper and learn about other similar constructions.



### ROBOTIC ARM

Design, build and program your very own robot! Activate your robotic arm and let it help you with moving objects from one place to another.

— free to use

— projects divided into 12 lessons lasting 45 min. each

— each project includes illustrated introduction, detailed building instructions, step-by-step programming guide, instructions for testing and upgrading, printable lesson plan for the teacher

— available in 5 languages: English, Polish, Dutch, Lithuanian and Latvian

— accessible online at: [www.robocamp.eu/en/the-art-of-making/](http://www.robocamp.eu/en/the-art-of-making/)

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