

Item no.: 353147

AKX00022 - Engineering Kit Revision 2

from **217,21 EUR**

Item no.: 353147
shipping weight: 0.10 kg
Manufacturer: Arduino



Product Description

AKX00022 - Arduino Engineering Kit Rev2

The Arduino Engineering Kit Rev 2 provides extensive learning outcomes, giving students a strong understanding of basic engineering concepts through fun projects that create a collaborative learning environment. Students are able to connect what they learn with real-world industries, are encouraged to think critically, and improve their depth of knowledge by learning through experimentation. Ideal for advanced high school and college students.

The Arduino Engineering Kit Rev 2 is a versatile, hands-on learning tool that demonstrates key control systems concepts, core aspects of mechatronics, and MATLAB® and Simulink® programming. The projects cover the basics of model-based design, control systems, image processing, robotics, signal processing, and more - plus they're fun to do! The kit includes all the physical components you need, including learning materials and software, to build the three projects: a self-balancing motorcycle, a webcam controlled rover, and a drawing robot. There's online step-by-step guidance, so it's ideal for students working in small groups or for facilitating remote learning.

The kit is primarily for three types of users: students learning about mechatronics engineering, professors looking for practical resources to support their class, and makers with an interest or background in robotics, either professionally or as a hobby.

The kit includes several customized parts, a complete set of electronics, and all the mechanical components needed to assemble each project (a webcam controlled rover, a self-balancing motorcycle, and a drawing robot):

- Arduino Nano 33 IoT
- Nano Motor Carrier with IMU and battery charger
- Three sets of mechanical pieces to assemble the projects
- Li Ion 18650 battery
- Two geared motors with encoders
- DC motor with encoders
- Servo motor
- USB cable
- Two whiteboard markers
- Two wheels
- Allen key
- Webcam
- Nylon thread
- Screws, nuts, and bolts

A hard plastic, stackable toolbox ideal for storage and years of use.

A one-year individual license for MATLAB® and Simulink®.

Student e-learning platform with step-by-step guidance.

Specifications

Scan this QR code to
view the product
All details, up-to-date
prices and availability

