ARDUINO ENGINEERING KIT

Code: AKX00004

This product has a lead time of 15 days

Engineering Just Got Cool with the Arduino Engineering Kit! Bring the power of the Arduino MKR1000 to the classroom with MATLAB and Simulink.







The Arduino Engineering Kit is the ideal solution for university students, providing a state-of-the-art, hands-on incorporation of Arduino technology in an educational setting.
The kit is primarily for three types of users:

- Students learning about engineering at a university or at a vocational school (e.g., Introductory Engineering, Controls, Mechatronics courses);
- Professors teaching engineering who also want practical resources to demonstrate engineering concepts;
- Makers with an interest or background in engineering, either professionally or as a hobby.

The Arduino Engineering Kit includes three cutting-edge Arduino-based projects so that students can learn fundamental engineering concepts, key aspects of mechatronics, and MATLAB and Simulink programming. These projects will challenge them intellectually and help them develop physical engineering skills — and they're just fun to do.

Self-Balancing Motorcycle
This motorcycle will maneuver on its own on various terrains and remain upright using a flywheel for balance. It's very exciting to build and to see in action.

Mobile Rover
This vehicle can navigate between given reference points, move objects with a forklift and much more. It's very fun to make and use.

Whiteboard Drawing Robot
This amazing robot can take a drawing it's given and duplicate it on a whiteboard. It's most impressive.

The kit is sold in a hard plastic, stackable tool box for storage

The kit is sold in a hard plastic, stackable tool box for storage and years of reuse. Inside the box is an easy-to-use Arduino MKR1000 board, several customized parts, and a complete set of electrical and mechanical components needed to assemble all three projects. See below for detailed list of what's included in the kit.

In addition to the state-of-the-art, high-quality, open-source hardware provided, after registering online, the student will have access to a dedicated e-learning platform and other learning materials. Additionally, they are granted a one-year individual license for MATLAB and Simulink. This provides them with hands-on experience in system modeling and embedded algorithm development.

Need Help?

- On the Software on the Arduino Forum (https://forum.arduino.cc/index.php?board=63.0)
- On Projects on the Arduino Forum (https://forum.arduino.cc/index.php?board=124.0)
- With the Product itself through our Customer Support (mailto:engkit@arduino.cc)
- Login to see the course content (https://create.arduino.cc/edu/courses/course/)

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