Open source hardware for beginners

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Cake (C# Make) is a free and open source cross-platform build automation system with a C# DSL for tasks such as compiling code, copying files and folders, running unit tests, compressing files and building NuGet packages.

Here are some great starter projects for beginners, ranging from simple electronics projects involving batteries and tape to open source beehives. Your friends are going on about Arduino, you know that Raspberry Pi isn"t actually a baked good filled with fruit, and you"ve been following along with Open Hardware Week.

Now, let"s explore some of the best open-source projects for absolute beginners, providing detailed descriptions, necessary links, resources, and mentioning alternatives where applicable.

Arduino is an open-source electronics platform based on easy-to-use hardware and software. Arduino boards are able to read inputs - light on a sensor, a finger on a button, or a Twitter message - and turn it into an output - activating a motor, turning on an LED, publishing something online.

Arduino is an open-source platform that combines hardware and software in designing and building electronic projects. Arduino can be applied in a variety of projects like: Home automation. Internet of Things (IoT). Audio and music. Automated and remote controlled systems. Automation in agriculture. Electronic prototyping.

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Your friends are going on about Arduino, you know that Raspberry Pi isn"t actually a baked good filled with fruit, and you"ve been following along with Open Hardware Week. But where do you start? How do you teach yourself the basics?

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Everyone loves light-emitting diodes, and they form the basis for one of the easiest home electronics projects out there: LED throwies. With some cheap components, a watch battery, a magnet, and some electrical tape, you"re on your way to making a bright, throwable widget that sticks to any magnetic surface. And once you master the art of the simple throwie, try stepping it up a notch with some extreme throwies with on-off tabs and waterproof containers.

By Instructables user BCat

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The throwie is easy, but let"s break out the solder gun and make something really useful. With an empty tube of lip balm and some additional components, you can create a working flashlight that fits in even the smallest of pockets. This project requires some specialized parts, like a battery holder and a switch, but they"re all parts you can find easily online or at your local electronics store.

In some cases, hardware can be pretty soft. Grab your favorite electrical components--LEDs, buzzers, switches, and wire--and whip up some conductive and non-conductive putty. Stick the parts to the putty and see what happens.

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