

A close-up photograph of an Arduino Uno microcontroller board. The board is blue with various electronic components like resistors and integrated circuits. It is connected to a white breadboard above it using several red and black jumper wires. A small yellow LED on the board is illuminated. The text 'makeuseof' is overlaid in the top left, and the title 'getting started with arduino' is in the center. The author's name 'by Brad Kendall' is at the bottom.

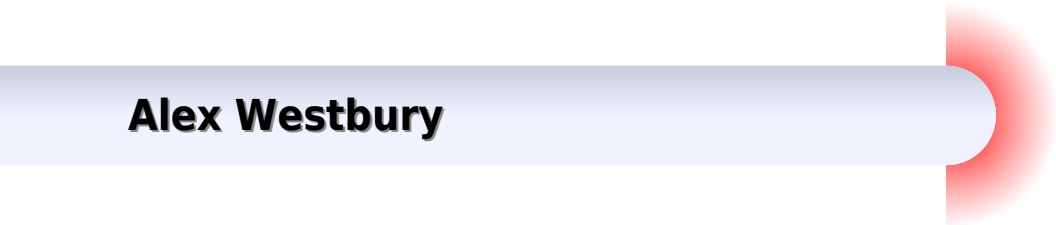
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getting started with
arduino
a beginner's guide

by Brad Kendall

Arduino Starter Guide

Alex Westbury



Arduino Starter Guide:

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Arduino and Arduino compatible microcontrollers are essentially simple computers that we can easily embed in our projects They enable us to sense input and create output in a huge number of ways Buttons touchsensitive areas environmental sensors and more can feed into these computers Lights sound movements and more can feed out Controlling these with a little bit of programmable logic allows us to create devices with a huge range of interactions This all sounds very computer y but Arduinos are designed to be embedded so are often hidden away in things that don t look like computers We look at some fantastic projects that showcase the range of things you can make with these microcontrollers It s become a cliché to say that the only limit is your imagination but these boards are sufficiently powerful and flexible to mean that it s very nearly true You can add interactions simple or complex to almost any project What s even better is that they re designed to be easy to use Projects include Build a four legged walking robot Create a Tetris inspired clock Grow your own veg with hydroponics Make music with a DIY synthesizer And much more Now that you ve picked up this book it s time to get started and create your own amazing Arduino project **Arduino Beginners Guide** Arnold Aspley,2021-07-13

Arduino is an open source platform used for building electronics projects Arduino consists of both a physical programmable circuit board often referred to as a microcontroller and a piece of software or IDE Integrated Development Environment that runs on your computer used to write and upload computer code to the physical board The Arduino platform has become quite popular with people just starting with electronics and for good reason Unlike most previous programmable circuit boards the Arduino does not need a separate piece of hardware called a programmer to load new code onto the board you can simply use a USB cable Additionally the Arduino IDE uses a simplified version of C making it easier to learn to program Finally Arduino provides a standard form factor that breaks out the functions of the micro controller into a more accessible package Through this book

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