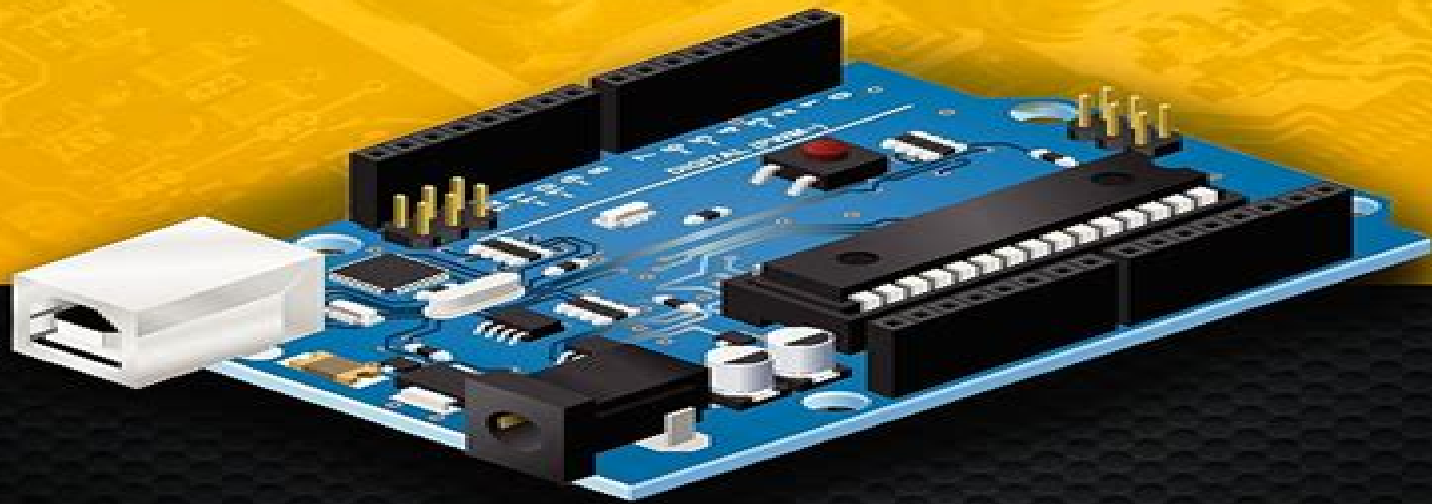


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useful for teachers students and researchers who are learning interaction design physical computing technology fashion or arts Having a basic understanding of Arduino based systems will help in easily comprehending the contents of the book

Make: Technology on Your Time Volume 25 Mark Frauenfelder,2011-01-11 The first magazine devoted entirely to do it yourself technology projects presents its 25th quarterly edition for people who like to tweak disassemble recreate and invent cool new uses for technology MAKE Volume 25 is all about the Arduino Revolution Give your gadgets a brain Previously out of reach for the do it yourselfer the tiny computers called microcontrollers are now so cheap and easy to use that anyone can make their stuff smart With a microcontroller your gadget can sense the environment talk to the internet or other hardware and make things happen in the real world by controlling motors lights or any electronic device The Arduino is an easy to use microcontroller board it s like an R D lab on your kitchen table for prototyping any gadget We show you how to make one and how to use Arduinos and other microcontrollers to make an automatic yogurt maker a vintage Skype telephone a gumball machine that recognizes your secret knock and more Plus make a Helicopter Rocket gourmet Sous Vide food cooker Reverse Geocache treasure box and many more fun DIY projects **Arduino Programming** Ryan

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built off basic technology Switches resistors circuits and boards allow electrical current to travel to specific places within a device resulting in specific actions taking place An example of this would be a light switch When we flip a light switch in either direction we will either turn on the light or turn it off Understanding why this occurs and what can be done with this simple technology is the basis for tools like the Arduino What Is an Arduino An Arduino is a low cost open source microcontroller board which is programmed using the Arduino IDE It is basically a microprocessor with I O pins that allows you to control external devices and sensors You can use it to create anything from a simple robot to a complex video game

The Arduino is designed to be used with other electronic components such as resistors capacitors transistors LEDs push buttons and relays The Arduino can also be used with temperature sensors accelerometers GPS modules etc The New Shop Class Joan Horvath,Richard Cameron,Doug Adrianson,2015-05-11 The New Shop Class connects the worlds of the maker and hacker with that of the scientist and engineer If you are a parent or educator or a budding maker yourself and you feel overwhelmed with all of the possible technologies this book will get you started with clear discussions of what open source technologies like 3D printers Arduinos robots and wearable tech can really do in the right hands Written by real rocket scientist Joan Horvath author of Mastering 3D Printing and 3D printing expert Rich Cameron AKA whosawhatsis The New Shop Class is a friendly down to earth chat about how hands on making things can lead to a science career Get practical suggestions about how to use technologies like 3D printing Arduino and simple electronics Learn how to stay a step ahead of the young makers in your life and how to encourage them in maker activities Discover how engineers and scientists got their start and how their mindsets mirror that of the maker

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