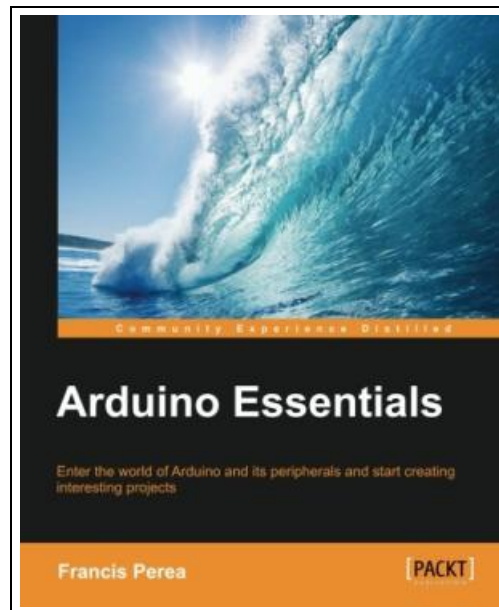


Arduino Essentials



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ARDUINO ESSENTIALS



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Packt Publishing - ebooks Account. Paperback. Condition: New. 186 pages. Dimensions: 9.2in. x 7.5in. x 0.5in. Enter the world of Arduino and its peripherals and start creating interesting projects. About This Book: Meet Arduino and its main components and understand how they work to use them in your real-world projects. Assemble circuits using the most common electronic devices such as LEDs, switches, optocouplers, motors, and photocells and connect them to Arduino. A Precise step-by-step guide to apply basic Arduino programming techniques in the C language. Who This Book Is For: If you are a hobbyist who wants to develop projects based on Arduino as the main microcontroller platform or an engineer interested in finding out what the Arduino platform offers, then this book is ideal for you. Some prior knowledge of the C programming language is required. In Detail: The Arduino is an open source microcontroller built on a single circuit board that is capable of receiving sensory input from its environment and controlling interactive physical objects. It is also a development environment that allows you to write software to the board, and is programmed in the Arduino programming language. The Arduino has become the most popular microcontroller platform and thus hundreds of projects are being developed using it, from basic to advanced levels. This book will first introduce you to the most important board models of the Arduino family. You will then learn to set up the Arduino software environment. Next, you will work with digital and analog inputs and outputs, manage the time precisely, establish serial communications with other devices in your projects, and even control interrupts to make your project more responsive. Finally, you will be presented with a complete real-world example by utilizing all the concepts learned so far in the book. This will enable you to develop your own microcontroller projects....



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