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Nota di contenuto	<p>""Cover""; ""Copyright""; ""Credits""; ""About the Author""; ""About the Reviewers""; ""www.PacktPub.com""; ""Table of Contents""; ""Preface""; ""Chapter 1: A Sound Effects Machine""; ""Parts list""; ""A sound effects machine block diagram""; ""Building the sound effects machine""; ""Introducing SPI communication""; ""Adding digital logic switches for WAV file selection""; ""Adding SD and WAV file libraries to your Arduino sketch (code)""; ""The TMRpcm library installation""; ""Adding a random function to play sounds automatically""</p> <p>""Adding an LED bar graph display for selected sound (concept)""""Summary""; ""Chapter 2: Programmable DC Motor Controller with an LCD""; ""Parts list""; ""A programmable motor controller block diagram""; ""Building the programmable motor controller""; ""Let's build it!""; ""Interfacing a discrete digital logic circuit with Arduino""; ""Interfacing a small DC motor with a digital logic gate""; ""A sketch of the LCD selection cursor""; ""The partially programmable DC motor controller program sketch that comes without an LCD selection feature""</p> <p>""The partially programmable DC motor controller program sketch with an LCD selection feature""""Summary""; ""Chapter 3: A Talking Logic Probe""; ""Parts list""; ""A talking logic probe block diagram""; ""A</p>

talking logic probe a€? Testing the EMIC 2 TTS module""; ""EMIC 2 TTS module basics""; ""EMIC 2 TTS module's key features""; ""Electrical connections""; ""Let's build it!""; ""How does the talking logic probe code work""; ""DecTalk speech synthesizer engine""; ""Summary""; ""Chapter 4: Human Machine Interface""; ""Parts list""; ""HMI controller block diagram""
""Testing the transistor motor driver""""Testing the pushbutton switch""; ""Making the web page physical""; ""Now serving, the Arduino""; ""Getting into the real world using Breakout""; ""Pre-lab exercise""; ""Setting up the Breakout file directory""; ""The motor control HTML script""; ""Summary""; ""Chapter 5: IR Remote Control Tester""; ""Parts list""; ""IR remote control tester block diagram""; ""IR signals and communication protocols""; ""littleBits electronic modules""; ""Wiring the IR receiver module""; ""Wiring the Arduino and the LCD""; ""IR tester code""; ""Summary""
""Chapter 6: A Simple Chat Device with LCD""""Parts list""; ""A Simple Chat device block diagram""; ""Building a serial-based Simple Chat device""; ""Serial-based Simple Chat device code""; ""The Nordic nRF8001 BLE IC""; ""The RedBearLab BLE shield""; ""Installing the RBL_nRF8001 library""; ""Uploading the BLEControllerSketch code to the Arduino Uno""; ""Connecting with an Android smartphone""; ""Summary""; ""Chapter 7: Bluetooth Low Energy Controller""; ""Parts list""; ""BLE Controller block diagrams""; ""Building a BLE DC motor controller""
""Building a BLE seven segment LED display controller""

Sommario/riassunto

This book is intended for those who want to learn about electronics and coding by building amazing devices and gadgets with Arduino. If you are an experienced developer who understands the basics of electronics, then you can quickly learn how to build smart devices using Arduino. The only experience needed is a desire to learn about electronics, circuit breadboarding, and coding.
