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Titolo	Learn Electronics with Raspberry Pi : Physical Computing with Circuits, Sensors, Outputs, and Projects / / by Stewart Watkiss
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ISBN	9781484218983 1484218981
Edizione	[1st ed. 2016.]
Descrizione fisica	1 online resource (XXIV, 290 p. 191 illus., 153 illus. in color.)
Collana	Technology in action
Disciplina	005.18
Soggetti	Computer input-output equipment
	Microprogramming
	Architecture, Computer
	Programming languages (Electronic computers)
	Hardware and Maker
	Control Structures and Microprogramming
	Computer System Implementation
	Computer System Implementation Programming Languages, Compilers, Interpreters
Lingua di pubblicazione	Computer System Implementation Programming Languages, Compilers, Interpreters Inglese
Lingua di pubblicazione Formato	Computer System Implementation Programming Languages, Compilers, Interpreters Inglese Materiale a stampa
Lingua di pubblicazione Formato Livello bibliografico	Computer System Implementation Programming Languages, Compilers, Interpreters Inglese Materiale a stampa Monografia
Lingua di pubblicazione Formato Livello bibliografico Note generali	Computer System Implementation Programming Languages, Compilers, Interpreters Inglese Materiale a stampa Monografia Includes index.
Lingua di pubblicazione Formato Livello bibliografico Note generali Nota di contenuto	Computer System Implementation Programming Languages, Compilers, Interpreters Inglese Materiale a stampa Monografia Includes index. Getting started with electronic circuits All about Raspberry Pi Starting with the basics: programming with scratch Using Python for input and output: GPIO zero More input and output: infrared sensors and LCD displays Adding control in Python and Linux Creating video with a Pi camera Rolling forward: designing and building a robot Customize your gameplay: Minecraft hardware programming Making your circuits permanent Let the innovation begin: designing your own circuits.

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create projects like an arcade game, disco lights, and infrared transmitter, and an LCD display. You'll also learn how to control Minecraft's Steve with a joystick and how to build a Minecraft house with a Pi, and even how to control a LEGO train with a Pi. You'll even learn how to create your own robot, including how to solder and even design a printed circuit board! Learning electronics can be tremendous fun — your first flashing LED circuit is a reason to celebrate! But where do you go from there, and how can you move into more challenging projects without spending a lot of money on proprietary kits? Learn Electronics with Raspberry Pi shows you how to and a lot more. What You'll Learn Design and build electronic circuits Make fun projects like an arcade game, a robot, and a Minecraft controller Program the Pi with Scratch and Python Who This Book Is For Makers, students, and teachers who want to learn about electronics and programming with the fun and low-cost Raspberry Pi.