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Descrizione fisica	1 online resource (198 p.)
Collana	Technology in Action
Disciplina	004
Soggetti	Computer input-output equipment Software engineering Operating systems (Computers) Hardware and Maker Software Engineering Operating Systems
Lingua di pubblicazione	Inglese
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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Chapter 1: Introduction to Pi 2 -- Chapter 2: Workstation -- Chapter 3: The Matrix -- Chapter 4: Installing a Kernel -- Chapter 5: GPIO gp Command -- Chapter 6: General Purpose Clock -- Chapter 7: Pulse Width Modulation -- Chapter 8: Physics of the GPIO Interface -- Chapter 9: PiSpy -- Chapter 10: Debouncing -- Chapter 11: Fast Track to C++ -- Chapter 12: Multi-core Webserver -- Appendix A: GPIO Class, Part I -- Appendix B: GPIO Class, Part II -- Appendix C: GPIO Class, Part III -- Appendix D: MAX7219 Class -- Appendix E: Matrix Class -- Appendix F: MTop and Diskstat -- Appendix G: The Rest.
Sommario/riassunto	You have a Pi 2, but what exactly can you do with it? This book takes you on a tour of the Pi 2 hardware and all of the fantastic things that you can do to create innovative and useful projects with your Pi. Start with creating a workstation that does actual work, and move into installing a custom kernel, creating a clock, learning the ins and outs of the GPIO interface, and pick up some useful C++ skills along the way. Warren Gay, author of Mastering the Raspberry Pi, takes you through a set of experiments to show just what the Pi 2 is capable of and how you can use it to make your own fantastic creations. What You Will Learn:

How to create an experimenter's workstation for the Pi 2, complete with breadboard and even Arduino All the details of GPIO, including a custom command for working with it Useful projects like a general purpose clock and the PiSpy Quick intro to C++ for the Pi How to make a multi-core webserver Who this book is for: Intermediate electronics enthusiasts and Pi fans, makers, students, teachers, and everyone who wants to know how to make the Pi really work.