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Titolo	Beginning MicroPython with the Raspberry Pi Pico : Build Electronics and IoT Projects // by Charles Bell
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ISBN	9781484281352 1484281357
Edizione	[1st ed. 2022.]
Descrizione fisica	1 online resource (645 pages) : illustrations
Collana	Maker Innovations Series, , 2948-2550
Disciplina	005.453
Soggetti	Raspberry Pi (Computer) Python (Computer program language) Application software - Development Microcomputers - Programming Computer programming Microcontrollers
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	Chapter 1: Introducing the Raspberry Pi Pico -- Chapter 2: Introducing MicroPython -- Chapter 3: How to Program in MicroPython -- Chapter 4: Low-Level Hardware Support -- Chapter 5: Electronics for Beginners -- Chapter 6: Project: Hello, World! MicroPython Style -- Chapter 7: Project: Pedestrian Crossing -- Chapter 8: Project: Soil Moisture Monitor -- Chapter 9: Introducing Grove -- Chapter 10: Project: Sound Activated Lights -- Chapter 11: Project: Simon Game -- Chapter 12: Example: Monitoring your Environment -- Chapter 13. Introducing IoT for the Cloud -- Chapter 14. Using ThingSpeak.
Sommario/riassunto	Program the Raspberry Pi Pico, the latest microcontroller board from raspberrypi.org, with MicroPython. This book will take you on a tour of the Raspberry Pi Pico, including how to get started using the microcontroller, seeing which alternative microcontrollers are available, and how to connect and run simple code examples. You'll program example projects in MicroPython using Python on your PC as a learning platform. Then build your hardware skillset working with electronics and breadboard circuits. You'll implement example projects with all

steps explained, including hardware connections and executing the project. Then apply them to real-world, approachable projects using the accessible Raspberry Pi Pico! The book shows how the cloud is used for IoT data and find out what popular cloud systems currently exist for IoT. Finally, you'll use ThingSpeak for hosting IoT data including connecting your Pico to the Internet. Beginning MicroPython with the Raspberry Pi Pico allows you to build up your skills to more advanced IoT projects and Cloud systems! You will: Build valuable programming skills with MicroPython Explore the Raspberry Pi Pico and similar boards Develop your own electronics and IOT projects Incorporate the Grove component system with the Raspberry Pi Pico.
