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Titolo	Raspberry Pi for Python programmers cookbook : over 60 recipes that harness the power of the Raspberry Pi together with Python programming and create enthralling and captivating projects // Tim Cox
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ISBN	1-78528-390-1
Edizione	[Second edition.]
Descrizione fisica	1 online resource (510 pages) : illustrations (some color), photographs
Disciplina	005.3
Soggetti	Raspberry Pi (Computer) Python (Computer program language) Computer input-output equipment
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
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Note generali	Includes index.
Sommario/riassunto	Over 60 recipes that harness the power of the Raspberry Pi together with Python programming and create enthralling and captivating projects About This Book Install your first operating system, share files over the network, and run programs remotely Construct robots and interface with your own circuits and purpose built add-ons, as well as adapt off-the-shelf household devices using this pragmatic guide Packed with clear, step-by-step recipes to walk you through the capabilities of Raspberry Pi Who This Book Is For Readers are expected to be familiar with programming concepts and Python (where possible Python 3 is used), although beginners should manage with the help of a good Python reference book and background reading. No prior knowledge of the Raspberry Pi or electronics is required; however, for the hardware sections you will need some basic electronic components/household tools to build some of the projects. What You Will Learn Get the Raspberry Pi set up and running for the first time Remotely connect to the Raspberry Pi and use your PC/laptop instead of a separate screen/keyboard Get to grips with text, files and creating

quick menus using Python Develop desktop applications; handle images and process files with ease Make use of graphics and user control to develop your own exciting games Use the Raspberry Pi's powerful GPU to create 3D worlds Take control of the real world and interface with physical hardware, combining hardware and software for your own needs Measure and control processes, respond to real events and monitor through the Internet Learn about the Raspberry Pi hardware inputs/outputs, starting with the basics and beyond Expand the capabilities of the Raspberry Pi with hardware expansion / add-on modules (use analogue inputs, drive servos and motors, and use SPI/I2C) Create your own Pi-Rover or Pi-Hexpod driven by the Raspberry Pi Make use of existing hardware by modifying and interfacing with it using the Raspberry Pi In Detail Raspberry Pi cookbook for Python Programmers is a practical guide for getting the most out of this little computer. This book begins by guiding you through setting up the Raspberry Pi, performing tasks using Python 3 and introduces the first steps to interface with electronics. As you work through each chapter you will build up your skills and knowledge and apply them as you progress throughout the book, delving further and further into the unique abilities and features of the Raspberry Pi. Later,

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