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   Titolo   Advanced Raspberry Pi : Raspbian Linux and GPIO Integration / / by
                      Warren Gay

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   Descrizione fisica 1 online resource (529 pages)

   Collana   Technology in action

   Disciplina   005.3

   Soggetti   Computer input-output equipment
                      Computer hardware
                      Hardware and Maker
                      Computer Hardware

   Lingua di pubblicazione   Inglese

   Formato   Materiale a stampa

   Livello bibliografico   Monografia

   Nota di bibliografia   Includes bibliographical references and index.

   Nota di contenuto Chapter 1: The Raspberry Pi -- Chapter 2: Preparation -- Chapter 3:
                      Power -- Chapter 4: LEDs and Header Strips -- Chapter 5: SDRAM --
                      Chapter 6:CPU -- Chapter 7: USB -- Chapter 8: Ethernet -- Chapter 9:
                      SD Card Storage -- Chapter 10: UART -- Chapter 11: GPIO Hardware --
                      Chapter 12: Sysfs GPIO -- Chapter 13: C Program GPIO -- Chapter 14:
                      1-Wire Driver -- Chapter 15: I2C Bus -- Chapter 16: SPI Bus -- Chapter
                      17: Boot -- Chapter 18: vcgencmd -- Chapter 19: Linex Console and Pi
                      Zero -- Chapter 20: Cross-Compiling -- Chapter 21: Cross-Compiling
                      the Kernel -- Chapter 22: DHT11 Sensor -- Chapter 23: Nunchuk
                      Mouse -- Chapter 24: LCD HDMI Display -- Chapter 25: Real-Time
                      Clock -- Chapter 26: Pi Camera -- Appendix A: Power Standards --
                      Appendix B: Electronics Reference. .

   Sommario/riassunto Jump right into the pro-level guts of the Raspberry Pi with complete
                      schematics and detailed hardware explanations as your guide. You'll
                      tinker with runlevels, reporting voltages and temperatures, and work
                      on a variety of project examples that you can tune for your own project
                      ideas.. This book is fully updated for the latest Pi boards with three
                      chapters dedicated to GPIO to help you master key aspects of the
                      Raspberry Pi. You'll work with Linux driver information and explore the

different Raspberry Pi models, including the Pi Zero, Pi Zero W, Pi 2, Pi3 B and Pi3 B+. You'll also review a variety of project examples that you can tune for your own project ideas. Other topics covered include the 1-Wire driver interface, how to configure a serial Linux console, and cross-compile code, including the Linux kernel. You'll find yourself turning to Advanced Raspberry Pi over and over again for both inspiration and reference. Whether you're an electronics professional, an entrepreneurial maker, or just looking for more detailed information on the Raspberry Pi, this is exactly the book for you.