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Covers interesting topics for students and aspiring computer professionals.

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Wiley: Teach Yourself VISUALLY

Raspberry Pi - Richard Wentk

Raspberry Pi is an inexpensive, single-board computer that serves as an introductory board for students and developing computer professionals

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This is a full-colour, step-by-step guide for learning to use Raspberry Pi!

Teach yourself visually Raspberry Pi -
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This image-driven, visual guide shows you how the Raspberry Pi can be easily used as a stand-alone computer, a media center, a web server, and much more. Vivid, full-color images bring Raspberry Pi projects to life, while well-illustrated circuit diagrams and step-by-step practical advice cover everything from working with the included software to branching out into typical but more complex endeavors.

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An introduction to the Raspberri Pi is presented through a series of creative, step-by-step projects that explain the basics of writing computer games, building websites, creating art and more. Original.

A technology book for kids! Do you want to learn how computers work? This book introduces you to the world of computing with the Raspberry Pi - the small, inexpensive, and super-cool microcomputer that teaches real tech skills. Use the Pi to create things while learning all about computers, from the inside out! Start it up — get your Raspberry Pi set up, configured, and ready for action Create music — start the party using Sonic Pi to record your own songs Game on —

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combine Python and Minecraft and start programming your own video game world.

A \$35 minicomputer about the size of a credit card, the Raspberry Pi has taken the world of computing by storm. Originally intended for teaching programming in schools, the device's low price, small size, and low power consumption have given it wide appeal. This entertaining, informative title reveals the vision behind the Raspberry Pi and the history of its creation. It describes the computer's hardware and the options it offers in terms of operating systems, software, programming languages, and peripherals. Readers also get a look at the lively Raspberry Pi community of tinkerers and their creative projects making use of the

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Use your Raspberry Pi to get smart about computing fundamentals In the 1980s, the tech revolution was kickstarted by a flood of relatively inexpensive, highly programmable computers like the Commodore. Now, a second revolution in computing is beginning with the Raspberry Pi. Learning Computer Architecture with the Raspberry Pi is the premier guide to understanding the components of the most exciting tech product available. Thanks to this book, every Raspberry Pi owner can understand how the computer works and how to access all of its hardware and software capabilities. Now, students, hackers, and casual users alike can discover how computers work with Learning Computer Architecture with

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the Raspberry Pi. This book explains what each and every hardware component does, how they relate to one another, and how they correspond to the components of other computing systems. You'll also learn how programming works and how the operating system relates to the Raspberry Pi's physical components. Co-authored by Eben Upton, one of the creators of the Raspberry Pi, this is a companion volume to the Raspberry Pi User Guide An affordable solution for learning about computer system design considerations and experimenting with low-level programming Understandable descriptions of the functions of memory storage, Ethernet, cameras, processors, and more Gain knowledge of computer design and

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operation in general by exploring the basic structure of the Raspberry Pi. The Raspberry Pi was created to bring forth a new generation of computer scientists, developers, and architects who understand the inner workings of the computers that have become essential to our daily lives. Learning Computer Architecture with the Raspberry Pi is your gateway to the world of computer system design.

Coding for kids is cool with Raspberry Pi and this elementary guide. Even if your kids don't have an ounce of computer geek in them, they can learn to code with Raspberry Pi and this wonderful book. Written for 11- to 15-year-olds and assuming no prior computing knowledge, this book uses the wildly successful, low-cost, credit-card-sized Raspberry Pi computer to

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explain fundamental computing concepts. Young people will enjoy going through the book's nine fun projects while they learn basic programming and system administration skills, starting with the very basics of how to plug in the board and turn it on. Each project includes a lively and informative video to reinforce the lessons. It's perfect for young, eager self-learners—your kids can jump in, set up their Raspberry Pi, and go through the lessons on their own. Written by Carrie Anne Philbin, a high school teacher of computing who advises the U.K. government on the revised ICT Curriculum Teaches 11- to 15-year-olds programming and system administration skills using Raspberry Pi Features 9 fun projects accompanied by lively and helpful

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videos Raspberry Pi is a \$35/£25 credit-card-sized computer created by the non-profit Raspberry Pi Foundation; over a million have been sold Help your children have fun and learn computing skills at the same time with Adventures in Raspberry Pi.

Python Programming for Raspberry Pi® In just 24 sessions of one hour or less, Sams Teach Yourself Python Programming for Raspberry Pi in 24 Hours teaches you Python programming on Raspberry Pi, so you can start creating awesome projects for home automation, home theater, gaming, and more. Using this book ' s straight-forward, step-by-step approach, you ' ll move from the absolute basics all the way through network and web connections, multimedia, and even connecting

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with electronic circuits for sensing and robotics. Every lesson and case study application builds on what you 've already learned, giving you a rock-solid foundation for real-world success! Step-by-step instructions carefully walk you through the most common Raspberry Pi Python programming tasks. Quizzes at the end of each chapter help you test your knowledge. By the Way notes present interesting information related to the discussion. Did You Know? tips offer advice or show you easier ways to perform tasks. Watch Out! cautions alert you to possible problems and give you advice on how to avoid them. Richard Blum has administered systems and networks for more than 25 years. He has published numerous Linux and open source books, and is an online

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instructor for web programming and Linux courses used by colleges across the United States. His books include Ubuntu Linux Secrets; Linux for Dummies, Ninth Edition; PostgreSQL 8 for Windows; and Professional Linux Programming. Christine Bresnahan began working as a systems administrator more than 25 years ago. Now an Adjunct Professor at Ivy Tech Community College, she teaches Python programming, Linux administration and computer security. She is coauthor of The Linux Bible, Eighth Edition. With Blum, she also coauthored Linux Command Line & Shell Scripting Bible, Second Edition. Get your Raspberry Pi and choose the right low-cost peripherals Set up Raspian Linux and the Python programming environment Learn Python basics, including arithmetic

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and structured commands Master Python 3 lists, tuples, dictionaries, sets, strings, files, and modules Reuse the same Python code in multiple locations with functions Manipulate string data efficiently with regular expressions Practice simple object-oriented programming techniques Use exception handling to make your code more reliable Program modern graphical user interfaces with Raspberry Pi and OpenGL Create Raspberry Pi games with the PyGame library Learn network, web, and database techniques you can also use in business software Write Python scripts that send email Interact with other devices through Raspberry Pi ' s GPIO interface Walk through example Raspberry Pi projects that inspire you to do even more On the Web: Register your book at

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informat.com/title/9780672337642 for access to all code examples from the book, as well as update and corrections as they become available.

Annotation In just 24 sessions of one hour or less, "Sams Teach Yourself Arduino Programming in 24 Hours" teaches you C programming on Arduino, so you can start creating inspired "DIY" hardware projects of your own. Using this book's straightforward, step-by-step approach, you'll walk through everything from setting up your programming environment to mastering C syntax and features, interfacing your Arduino to performing full-fledged prototyping. Every hands-on lesson and example builds on what you've already learned, giving you a rock-solid foundation for

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real-world success " "Step-by-step instructions carefully walk you through the most common Arduino programming tasks. Quizzes at the end of each chapter help you test your knowledge. By the Way notes present interesting information related to the discussion. Did You Know? tips offer advice or show you easier ways to perform tasks. Watch Out cautions alert you to possible problems and give you advice on how to avoid them. Learn how to ... Get the right Arduino hardware and accessories for your needsDownload the Arduino IDE, install it, and link it to your ArduinoQuickly create, compile, upload, and run your first Arduino programMaster C syntax, decision control, strings, data structures, and functionsUse pointers to work with memory--and avoid

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common mistakes
Store data on your Arduino's EEPROM or an external SD card
Use existing hardware libraries, or create your own
Send output and read input from analog devices or digital interfaces
Create and handle interrupts in software and hardware
Communicate with devices via the SPI interface and I2C protocol
Work with analog and digital sensors
Write Arduino C programs that control motors
Connect an LCD to your Arduino, and code the output
Install an Ethernet shield, configure an Ethernet connection, and write networking programs
Create prototyping environments, use prototyping shields, and interface electronics to your Arduino.

Project Report from the year 2018 in

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the subject Engineering - General, Basics, grade: UG, , language: English, abstract: This project helps in simplifying the process of learning of braille instructions. The integration of physical activity and hearing can facilitate easy learning of Braille Script. In this project we develop a kit which helps the blind and visually impaired people to learn braille even in the absence of teachers. Braille literacy is crucial for blind individuals, as it enables life-long learning and is key to employment and independency. One way to promote Braille literacy is to make existing Braille reading devices more accessible, affordable, and user friendly. Commercially available Braille reading devices in this regard need various improvements. Most of these devices cost thousands of

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dollars, mainly because they rely on multiple piezoelectric actuators in order to create the Braille letters. Other issues include high voltage actuation and reduced portability. In order to solve these issues and improve existing Braille displays, various actuation methods have been widely investigated. 285 million people are estimated to be visually impaired worldwide, 39 million are blind and 246 have low vision. India has the largest population of blind people in the world. That's over 12 million people. Even the central and state government provide job opportunities for blind and visually impaired people. But only few vacancies are filled due to lack of education. Lack of education for blind people is due to the lack of qualified teachers to teach them Braille.

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Learning the Braille script is not an easy task for Visually Impaired students. Visually Impaired students have to memorize various patterns of keys of Braille matrix assigned for different letters/words/symbols in Braille script to read and write effectively.

This book presents best selected papers presented at the International Conference on Paradigms of Computing, Communication and Data Sciences (PCCDS 2020), organized by National Institute of Technology, Kurukshetra, India, during 1–3 May 2020. It discusses high-quality and cutting-edge research in the areas of advanced computing, communications and data science techniques. The book is a collection of latest research articles in

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computation algorithm,
communication and data sciences,
intertwined with each other for
efficiency.

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