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Python for programming and want to get  
started with microcontroller programming  
as well, you don ' t have to rely on C++

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Program Your Own MicroPython projects  
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You ' ll explore the types of devices that run MicroPython, and examine how the language uses and interacts with hardware to process input, connect to the outside world, communicate wirelessly, make sounds and music, and drive robotics projects. Work with MicroPython on four typical devices: PyBoard, the micro:bit, Adafruit ' s Circuit

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Playground Express, and ESP8266/ESP32 boards Explore a framework that helps you generate, evaluate, and evolve embedded projects that solve real problems Dive into practical MicroPython examples: visual feedback, input and sensing, GPIO, networking, sound and music, and robotics Learn how idiomatic MicroPython helps



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Load MicroPython on the ESP8266 and similar boards Interface with hardware breakout boards Connect hardware to software through MicroPython Explore the easy-to-use Adafruit IO connecting your microcontroller to the cloud Who This Book Is For Anyone interested in building IoT solutions without the heavy burden of

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programming in C++ or C. The book also appeals to those wanting an easier way to work with hardware than is provided by the Arduino and the Raspberry Pi platforms.

For the first time microcontrollers are powerful enough to be programmed in Python. The landscape of embedded

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microcontroller using LCD and Circuit Python Use and control sensors Who This Book Is For Those getting started with microcontrollers, those new to C, C++, and Arduino programming, web developers looking to get into IoT, or Python programmers who wish to control hardware devices.

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module. Key Features Delve into  
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Description With the increasing complexity of embedded systems seen over the past few years, developers are looking for ways to manage them easily by solving problems without spending a lot of time on finding supported peripherals. MicroPython is an efficient and lean implementation of the Python 3 programming language, which is

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such as electronic applications, automation devices, and IoT applications. While building seven engaging projects, you'll learn how to enable devices to communicate with each other, access and control devices over a TCP/IP socket, and store and retrieve data. The complexity will increase progressively as you work on different



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the techniques for scheduling application tasks and activities Who this book is for If you are an embedded developer or hobbyist looking to build interesting projects using MicroPython, this book is for you. A basic understanding of electronics and Python is required while some MicroPython experience will be helpful.

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Explore a concise and practical introduction to implementation methods and the theory of digital control systems on microcontrollers Embedded Digital Control: Implementation on ARM Cortex-M Microcontrollers delivers expert instruction in digital control system

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implementation techniques on the widely used ARM Cortex-M microcontroller. The accomplished authors present the included information in three phases. First, they describe how to implement prototype digital control systems via the Python programming language in order to help the reader better understand theoretical digital

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control concepts. Second, the book offers readers direction on using the C programming language to implement digital control systems on actual microcontrollers. This will allow readers to solve real-life problems involving digital control, robotics, and mechatronics. Finally, readers will learn how to merge the theoretical and practical

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issues discussed in the book by implementing digital control systems in real-life applications. Throughout the book, the application of digital control systems using the Python programming language ensures the reader can apply the theory contained within. Readers will also benefit from the inclusion of: A thorough introduction to the

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hardware used in the book, including STM32 Nucleo Development Boards and motor drive expansion boards An exploration of the software used in the book, including MicroPython, Keil uVision, and Mbed Practical discussions of digital control basics, including discrete-time signals, discrete-time systems, linear and time-



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Microcontrollers will also earn a place in the libraries of professional engineers and hobbyists working on digital control and robotics systems seeking a one-stop reference for digital control systems on microcontrollers.

Deep learning networks are getting smaller.

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Much smaller. The Google Assistant team can detect words with a model just 14 kilobytes in size—small enough to run on a microcontroller. With this practical book you ' ll enter the field of TinyML, where deep learning and embedded systems combine to make astounding things possible with tiny devices. Pete Warden and Daniel

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experience is necessary. Build a speech recognizer, a camera that detects people, and a magic wand that responds to gestures Work with Arduino and ultra-low-power microcontrollers Learn the essentials of ML and how to train your own models Train models to understand audio, image, and accelerometer data Explore TensorFlow Lite

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latency, energy usage, and model and binary  
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microcontrollers such as Adafruit Circuit Playground, ESP8266, and the BBC micro:bit Key Features Load and execute your first program with MicroPython Program an IoT device to retrieve weather data using a RESTful API Get to grips with integrating hardware, programming, and networking concepts with MicroPython

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Book Description MicroPython is an open source implementation of Python 3 that runs in embedded environments. With MicroPython, you can write clean and simple Python code to control hardware instead of using complex low-level languages like C and C++. This book guides you through all the major applications of the



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with Internet of Things (IoT) devices and integration with other online web services. Furthermore, you'll also use MicroPython to make music with bananas and create portable multiplayer video games that incorporate sound and light animations into the game play. By the end of the book, you'll have mastered tips and tricks to

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troubleshoot your development problems and push your MicroPython project to the next level! What you will learn Execute code without any need for compiling or uploading using REPL (read-evaluate-print-loop) Program and control LED matrix and NeoPixel drivers to display patterns and colors Build projects that make use of light,

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temperature, and touch sensors Configure devices to create Wi-Fi access points and use network modules to scan and connect to existing networks Use Pulse Width Modulation to control DC motors and servos Build an IoT device to display live weather data from the Internet at the touch of a button Who this book is for If you want

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to build and program projects that use microcontrollers, this book will offer you dozens of recipes to guide you through all the major applications of the MicroPython platform. Although no knowledge of MicroPython or microcontrollers is expected, a general understanding of Python is necessary to get started with this book.

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CircuitPython is a development framework for embedded system based MicroPython.

This book helps you to get started with CircuitPython development. This book uses Adafruit ItsyBitsy M0 Express board for development testing board. The following is a list of highlight topics in this book: \*

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