

# Python for Microcontrollers: Getting Started with MicroPython



## Python for Microcontrollers: Getting Started with MicroPython

★★★★☆ 4.2 out of 5

Language : English  
File size : 91812 KB  
Text-to-Speech : Enabled  
Screen Reader : Supported  
Enhanced typesetting : Enabled  
Print length : 288 pages



Are you ready to unlock the potential of Python on microcontrollers? With MicroPython, a lean and efficient implementation of Python, you can now program microcontrollers in the same way you would on your computer. This book will introduce you to the world of embedded programming, hardware interfacing, and practical projects, all while using the familiar and versatile Python language.

### Chapter 1: to Microcontrollers and Micropython

- What are microcontrollers and how do they work?
- to Micropython: features and advantages
- Setting up your development environment

### Chapter 2: Basic Embedded Programming with Python

- Fundamentals of Python programming
- Control structures, variables, and data types
- Interacting with hardware: GPIO, timers, and interrupts

### **Chapter 3: Hardware Interfacing with Micropython**

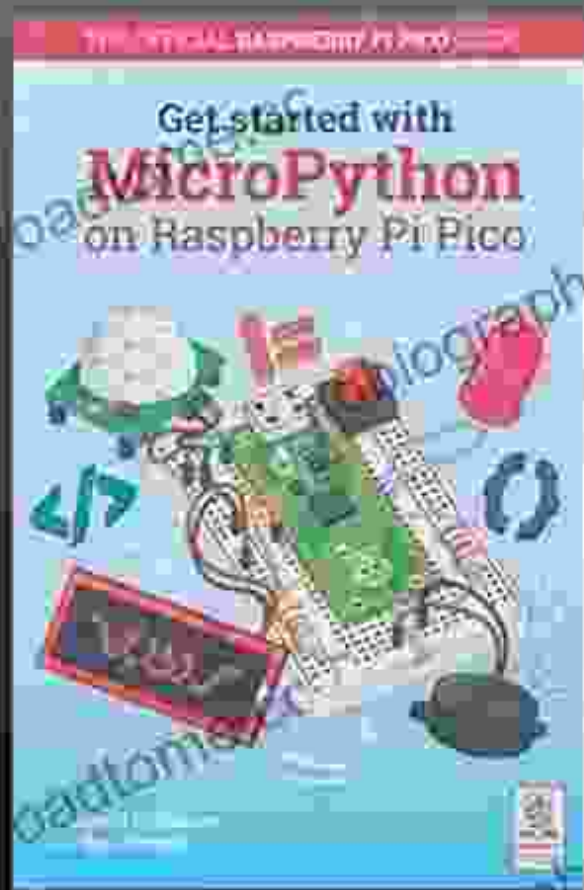
- Working with sensors: temperature, humidity, and light
- Controlling motors and actuators: servos, steppers, and DC motors
- Interfacing with displays: LCD, OLED, and e-ink

### **Chapter 4: Practical Micropython Projects**

- Building a temperature-controlled fan
- Creating a real-time clock with an RTC module
- Designing a motion-activated security system

This book is your gateway to the exciting world of Python on microcontrollers. Whether you're a beginner or an experienced Python programmer, you'll find valuable insights and hands-on guidance to help you build innovative and practical projects.

Don't wait, grab your copy of "Python for Microcontrollers: Getting Started with Micropython" today and embark on your microcontroller programming journey!



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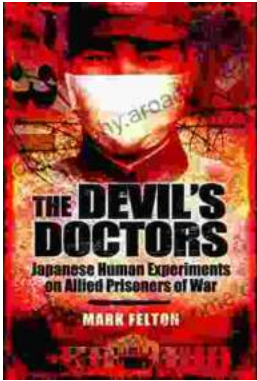
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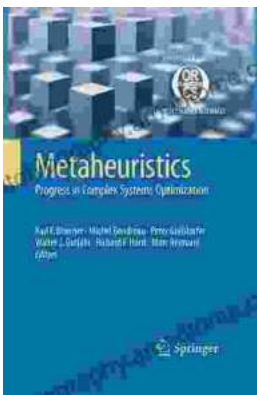
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