



# The Pi4J Project

*Connecting Java to the Raspberry Pi*

# The Pi4j Project Home

**N Colangelo**





the small yet powerful mini computer in order to run java applications Leverage Java libraries to build exciting projects on home automation IoT and Robotics by leveraging Java libraries Get acquainted with connecting electronic sensors to your Raspberry Pi 3 using Java APIs Who This Book Is For The book is aimed at Java programmers who are eager to get their hands on Raspberry Pi and build interesting projects using java They have a very basic knowledge of Raspberry Pi What You Will Learn Use presence detection using the integrated bluetooth chip Automatic light switch using presence detection Use a centralized IoT service to publish data using RPC Control a robot by driving motors using PWM Create a small web service capable of performing actions on the Raspberry Pi and supply readings Image capture using Java together with the OpenCV framework In Detail Raspberry Pi is a small low cost and yet very powerful development platform It is used to interact with attached electronics by the use of its GPIO pins for multiple use cases mainly Home Automation and Robotics Our book is a project based guide that will show you how to utilize the Raspberry Pi s GPIO with Java and how you can leverage this utilization with your knowledge of Java You will start with installing and setting up the necessary hardware to create a seamless development platform You will then straightaway start by building a project that will utilize light for presence detection Next you will program the application capable of handling real time data using MQTT and utilize RPC to publish data to adafruit io Further you will build a wireless robot on top of the zuma chassis with the Raspberry Pi as the main controller Lastly you will end the book with advanced projects that will help you to create a multi purpose IoT controller along with building a security camera that will perform image capture and recognize faces with the help of notifications By the end of the book you will be able to build your own real world usable projects not limited to Home Automation IoT and or Robotics utilizing logic user and web interfaces Style and approach The book will contain projects that ensure a java programmer gets started with building interesting projects using the small yet powerful Raspberry Pi 3 We will start with brushing up your Raspberry Pi skills followed by building 5 6 projects

*16th International Conference on Information Technology-New Generations (ITNG 2019)* Shahram Latifi,2019-05-22 This 16th International Conference on Information Technology New Generations ITNG continues an annual event focusing on state of the art technologies pertaining to digital information and communications The applications of advanced information technology to such domains as astronomy biology education geosciences security and health care are among topics of relevance to ITNG Visionary ideas theoretical and experimental results as well as prototypes designs and tools that help the information readily flow to the user are of special interest Machine Learning Robotics High Performance Computing and Innovative Methods of Computing are examples of related topics The conference features keynote speakers the best student award poster award service award a technical open panel and workshops exhibits from industry government and academia

[Raspberry Pi Electronics Projects for the Evil Genius](#) Donald Norris,2016-05-30 Program your own MicroPython projects with ease no prior programming experience necessary This DIY guide provides a practical introduction to microcontroller programming with MicroPython Written by an

experienced electronics hobbyist Python for Microcontrollers Getting Started with MicroPython features eight start to finish projects with clear easy to follow instructions for each You will learn how to use sensors store data control motors and other devices and work with expansion boards From there you ll discover how to design build and program all kinds of entertaining and practical projects of your own Learn MicroPython and object oriented programming basics Interface with a PC and load files programs and modules Work with the LEDs timers and converters Control external devices using serial interfaces and PWM Build and program a let ball detector using the three axis accelerometer Install and program LCD and touch sensor expansion boards Record and play sounds using the AMP audio board

*Raspberry Pi with Java: Programming the Internet of Things (IoT) (Oracle Press)* Stephen Chin,James Weaver,2015-10-23 Use Raspberry Pi with Java to create innovative devices that power the internet of things Raspberry Pi with Java Programming the Internet of Things IoT fills an important gap in knowledge between seasoned Java developers and embedded hardware gurus taking a project based approach to skills development from which both hobbyists and professionals can learn By starting with simple projects based on open source libraries such as Pi4J hobbyists can get immediate results without a significant investment in time or hardware Later projects target simplified industrial use cases where professionals can start to apply their skills to practical problems in the fields of home automation healthcare and robotics This progression prepares you to be an active participant in the IoT revolution that is reshaping our lives For the hobbyist Hardware used in projects is affordable and easily accessible Follows a project based learning approach with a gradual learning curve Projects are based on open source code repositories with commercial friendly licenses For the professional computer engineer Uses an industry standard platform that allows for high performance secure production ready applications Introduces Java SE Embedded for large devices and Java ME Embedded for small devices Code is portable to a wide variety of ARM and MIPS based platforms Provides practical skill development with advanced projects in the fields of home automation healthcare and robotics

## Enjoying the Song of Term: An Mental Symphony within **The Pi4j Project Home**

In some sort of eaten by displays and the ceaseless chatter of instant communication, the melodic splendor and emotional symphony created by the published word often diminish in to the backdrop, eclipsed by the relentless sound and disturbances that permeate our lives. Nevertheless, nestled within the pages of **The Pi4j Project Home** an enchanting literary prize brimming with fresh thoughts, lies an immersive symphony waiting to be embraced. Constructed by an outstanding musician of language, that captivating masterpiece conducts viewers on a psychological journey, well unraveling the hidden melodies and profound affect resonating within each cautiously crafted phrase. Within the depths of this moving assessment, we shall discover the book is central harmonies, analyze its enthralling publishing type, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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