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Comprehending as with ease as arrangement even more than further will present each success. adjacent to, the notice as competently as keenness of this internet of things with raspberry pi 3 leverage the power of raspberry pi 3 and javascript to build exciting iot projects can be taken as without difficulty as picked to act.

Internet Of Things (IOT) with a Raspberry Pi

Raspberry Pi for Internet of Things (IoT) - EP.1

Smart Home IoT system based on Raspberry Pi4
Top 10 IoT Projects using Raspberry-Pi | Raspberry Pi Projects

SparkFun Internet of Things Apartment #4 - Raspberry Pi
Camera Refrigerator Internet of Things (Raspberry Pi) |

Getting started with IoT Hub THINGSBOARD Raspberry Pi 3

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~~Tutorial | Raspberry Pi 3 Projects | IoT Projects | IoT Tutorial |~~
~~Eureka Connecting Raspberry Pi to AWS IoT Core : Setup~~
~~and code Using Python and AWS IOT IoT Based Home~~
~~Automation using Raspberry Pi 4 (2020) | Learn Technology~~
~~in 5 Minutes Internet of Things using Raspberry Pi - Hosted~~
~~by Pantech \u0026amp; IET Alwar How to use a Raspberry Pi as~~
~~an IoT Device - Maker.io Tutorial | Digi-Key Electronics~~
~~Amazing DIY Pocket PC Top 10 Coolest Raspberry Pi~~
~~Projects IoT Based Home Automation System Over The~~
~~Cloud (Final Year Project) TOP 10 Raspberry Pi projects for~~
~~2020 LET`S BUILD - my first Raspberry Pi SMART MIRROR!~~
~~TOP 10 Best Raspberry Pi Projects Of All Time Use a~~
~~Raspberry Pi to Fix Everyday Problems. Become the Office~~
~~Hero! Complete Guide To The Ultimate Smart Home : Demo~~

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~~Home automation using Raspberry Pi Full tutorial TOP 10 Raspberry Pi Projects - Maker Tutor Getting Started - Windows 10 IoT Core | Raspberry Pi 3 Top 10 IoT Projects for Beginners~~

Windows 10 IoT (Internet of Things) Core Demo

~~IMPLEMENTATION OF IOT WITH RASPBERRY PI-I Top 10 IoT (Internet Of Things) Projects Of All Time | 2018 Dual Internet of Things Thermometer \u0026 App | Raspberry Pi MOOC Practical Internet of Things (IoT) 1.1: Introduction to Raspberry Pi Book Review the Mastering The Internet of Things Interview Gilles Robichon IOT~~

Internet Of Things With Raspberry

Next, you need to add any required libraries to your Raspberry Pi, which you can do remotely from your browser.

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Click the "Settings" button next to the Online indicator and choose "Local Shell"....

How to use a Raspberry Pi with the Internet of Things ...

Building the Internet of Things (IOT) using Raspberry Pi. The idea wasn't named until 1999; the Internet of Things has been in development for decades. The first Internet appliance, for example, was a Coke machine at Carnegie Mellon University in the early 1980s. The programmers might connect to the machine more to the internet, check the status of the machine and conclude whether or not there would be a cold drink pending on them, should they decide to make the trip down to the machine.

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Building The (Internet of Things) IOT Using Raspberry Pi
It broadly covers introduction to Internet of Things and enabling technologies, interfacing with Raspberry Pi and Arduino and interfacing with Raspberry Pi GPIO. Internet of Things with Raspberry pi and Arduino is aimed at senior undergraduate, graduate students and professionals in electrical engineering, computer engineering including robotics.

Internet of Things with Raspberry Pi and Arduino - 1st ...
Raspberry Pi, a credit card-sized, low-cost but fully functional

Bookmark File PDF Internet Of Things With Raspberry Pi 3 Leverage The Power Of and programmable computer with modern high-definition multimedia capabilities. It may be the device that gets us back to computing ...

INTERNET Of THINGS: Raspberry Pi Home Automation System ...

The Ultimate Raspberry Pi & ROS Robotics Developer Super Bundle, available for \$49.99 or 97% off, will show you how to build your own internet of things (IoT) devices, how they work, and some of ...

Learn How the Internet of Things Works with These ...

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Buy Internet of Things with Raspberry Pi 3: Leverage the power of Raspberry Pi 3 and JavaScript to build exciting IoT projects by Rao, Maneesh (ISBN: 9781788627405) from Amazon's Book Store. Everyday low prices and free delivery on eligible orders.

Internet of Things with Raspberry Pi 3: Leverage the power ...
Through this training we shall learn about the essentials of Raspberry Pi specifically required for Internet of Things (IoT) technology. The training will include the following; 1. Raspberry Pi introduction and setup. 2. Python for Raspberry Pi. 3. Accessing GPIO pins. 4. Using PiCamera. 5. Networking using sockets. 6. Home automation

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IoT#4: IoT (Internet of Things) Automation with Raspberry ...
- Hello, everyone, this is Anum Sheraz and you are joining me in the course, Internet of Things with Python and Raspberry Pi. This will be a complete hands-on guide for regular as well as intermediate users and even Internet of Things to build, understand and solve the real world IoT problems. We will be building a centralized cloud platform in which multiple users can securely log in, and ...

Internet of Things with Python and Raspberry Pi

A physical device in an IoT ecosystem is also called a thing or

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smart thing. A thing can be any device with one or more of the following features: Devices such as iBeacon, Arduino, and Raspberry Pi, which have built in controllers/processors and communication channels such as Bluetooth, Wi-Fi, Ethernet, and so on.

Internet of Things with Raspberry Pi 3 - Packt

Tag: Internet of Things Tracking the Brecon Beacons ultramarathon with a Raspberry Pi Zero 10 peaks, 58km, 3000m of ascent, one Raspberry Pi Zero, several GPS modules... Helen Lynn - 2nd Oct 2019

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Internet of Things Archives - Raspberry Pi
Python is also recommended for aspiring young developers who are interested in pursuing careers in Security, Networking, and Internet-of-Things. Raspberry Pi development comes in many flavors, but Python is common and powerful.

Internet of Things with Python and Raspberry Pi
Raspberry Pi Internet of Things. Raspberry Pi is a series of small, cheap computers that can be used for a lot of things. Including different Internet of Things related uses. This site is devoted to sharing and publishing informations for people working with this. The site is started in connection with a

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group of KEA students during their internship at the company InfoShare, but other interested developers or people with ideas for IoT uses are welcome to participate.

Raspberry Pi IoT - Internet of Things with Raspberry Pi
Aim Of This Project Future scope of Project
Design Methodology Raspberry Pi & Xbee Zigbee
Design Methodology. 11. Design Methodology Internet Gateway
Device Internet Gateway Device has the ability to route data
coming from WSN network to internet and Send data coming
from internet to WSN network. It is like Wifi router for Internet
of Things IGD Project Management What is Internet Of Things
?

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Internet of things using Raspberry Pi - SlideShare

The pre-requisite from internet of things technology for wearable applications is to be highly energy efficient or ultra-low power and small sized. ... hands-on workshop IoT with Raspberry Pi.

Chapter 1: Introduction to Internet of things | by Nayyan ...

This course is ideal for those who are interested in exploring the possibilities of Internet of Things using Raspberry Pi. The course assumes basic knowledge of computer hardware and software. However, knowledge of Operating system

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Installation and networking will help you in getting up to speed.

Introduction to Internet of Things(IoT) using Raspberry Pi ... Design and implement state-of-the-art solutions for the Internet of Things; Build complex projects using motions detectors, controllers, sensors, and Raspberry Pi 3; A hands-on guide that provides interoperable solutions for sensors, actuators, and controllers; Book Description The Internet of Things (IoT) is the fastest growing technology market.

Download eBook - Mastering Internet of Things: Design and
Page 14/39

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Use the Raspberry Pi and modern computing techniques to build industrial Internet of Things systems. Principles and theoretical aspects of IoT technologies combine with hands-on projects leading to detailed descriptions of several industrial IoT applications.

Commercial and Industrial Internet of Things Applications ... Buy Mastering Internet of Things: Design and create your own IoT applications using Raspberry Pi 3 by Waher, Peter (ISBN: 9781788397483) from Amazon's Book Store. Everyday low prices and free delivery on eligible orders.

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Unleash the power of the Raspberry Pi 3 board to create interesting IoT projects Key Features Learn how to interface various sensors and actuators with the Raspberry Pi 3 and send this data to the cloud. Explore the possibilities offered by the IoT by using the Raspberry Pi to upload measurements to Google Docs. A practical guide that will help you create a Raspberry Pi robot using IoT modules. Book Description This book is designed to introduce you to IoT and Raspberry Pi 3. It will help you create interesting projects, such as setting up a weather station and measuring temperature and humidity using sensors; it will also show you how to send sensor data to cloud for visualization in real-time. Then we shift our focus

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to leveraging IoT for accomplishing complex tasks, such as facial recognition using the Raspberry Pi camera module, AWS Rekognition, and the AWS S3 service. Furthermore, you will master security aspects by building a security surveillance system to protect your premises from intruders using Raspberry Pi, a camera, motion sensors, and AWS Cloud. We'll also create a real-world project by building a Wi-Fi controlled robot car with Raspberry Pi using a motor driver circuit, DC motor, and a web application. This book is a must-have as it provides a practical overview of IoT's existing architectures, communication protocols, and security threats at the software and hardware levels—security being the most important aspect of IoT. What you will learn Understand the concept of IoT and get familiar with the features of Raspberry

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Pi Learn to integrate sensors and actuators with the Raspberry Pi Communicate with cloud and Raspberry using communication protocols such as HTTP and MQTT Build DIY projects using Raspberry Pi, JavaScript/node.js and cloud (AWS) Explore the best practices to ensure the security of your connected devices Who this book is for If you're a developer or electronics engineer and are curious about the Internet of Things, then this is the book for you. With only a rudimentary understanding of electronics, the Raspberry Pi, or similar credit-card sized computers, and some programming experience, you will be taught to develop state-of-the-art solutions for the Internet of Things in an instant.

This book provides a platform to understand Internet of things

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with Raspberry Pi and the basic knowledge of the programming and interfacing of the devices and designed systems. It broadly covers introduction to Internet of Things and enabling technologies, interfacing with Raspberry Pi and Arduino and interfacing with Raspberry Pi GPIO. Internet of Things with Raspberry pi and Arduino is aimed at senior undergraduate, graduate students and professionals in electrical engineering, computer engineering including robotics.

Build your own Internet of Things (IoT) projects for prototyping and proof-of-concept purposes. This book contains the tools needed to build a prototype of your design, sense the environment, communicate with the Internet (over

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the Internet and Machine to Machine communications) and display the results. Raspberry Pi IoT Projects provides several IoT projects and designs are shown from the start to the finish including an IoT Heartbeat Monitor, an IoT Swarm, IoT Solar Powered Weather Station, an IoT iBeacon Application and a RFID (Radio Frequency Identification) IoT Inventory Tracking System. The software is presented as reusable libraries, primarily in Python and C with full source code available. Raspberry Pi IoT Projects: Prototyping Experiments for Makers is also a valuable learning resource for classrooms and learning labs. What You'll Learn build IOT projects with the Raspberry Pi Talk to sensors with the Raspberry Pi Use iBeacons with the IOT Raspberry Pi Communicate your IOT data to the Internet Build security into

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your IOT device Who This Book Is For Primary audience are those with some technical background, but not necessarily engineers. It will also appeal to technical people wanting to learn about the Raspberry Pi in a project-oriented method.

Start solving world issues by beginning small with simple Raspberry Pi projects. Using a free IoT server; tackle fundamental topics and concepts behind the Internet of Things. Image processing and sensor topics aren't only applicable to the Raspberry Pi. The skills learned in this book can go on to other applications in mobile development and electrical engineering. Start by creating a system to detect movement through the use of a PIR motion sensor and a Raspberry Pi board. Then further your sensor systems by

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detecting more than simple motion. Use the MQ2 gas sensor and a Raspberry Pi board as a gas leak alarm system to detect dangerous explosive and fire hazards. Train your system to send the captured data to the remote server ThingSpeak. When a gas increase is detected beyond a limit, then a message is sent to your Twitter account. Having started with ThingSpeak, we'll go on to develop a weather station with your Raspberry Pi. Using the DHT11 (humidity and temperature sensor) and BMP085 (barometric pressure and temperature sensor) in conjunction with ThingSpeak and Twitter, you can receive realtime weather alerts from your own meteorological system! Finally, expand your skills into the popular machine learning world of digital image processing using OpenCV and a Pi. Make your own object classifiers and

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finally manipulate an object by means of an image in movement. This skillset has many applications, ranging from recognizing people or objects, to creating your own video surveillance system. With the skills developed in this book, you will have everything you need to work in IoT projects for the Pi. You can then expand your skills out further to develop mobile projects and delve into interactive systems such as those found in machine learning. What You'll Learn Work with ThingSpeak to receive Twitter alerts from your systems Cultivate skills in processing sensor inputs that are applicable to mobile and machine learning projects as well Incorporate sensors into projects to make devices that interact with more than just code Who This Book Is For Hobbyists and makers working robotics and Internet of Things areas will find this

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book a great resource for quick but expandable projects. Electronics engineers and programmers who would like to expand their familiarity with basic sensor projects will also find this book helpful.

Augment your IoT skills with the help of engaging and enlightening tutorials designed for Raspberry Pi 3 Key Features Design and implement state-of-the-art solutions for the Internet of Things Build complex projects using motions detectors, controllers, sensors, and Raspberry Pi 3 A hands-on guide that provides interoperable solutions for sensors, actuators, and controllers Book Description The Internet of Things (IoT) is the fastest growing technology market. Industries are embracing IoT technologies to improve

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operational expenses, product life, and people's well-being. Mastering Internet of Things starts by presenting IoT fundamentals and the smart city. You will learn the important technologies and protocols that are used for the Internet of Things, their features, corresponding security implications, and practical examples on how to use them. This book focuses on creating applications and services for the Internet of Things. Further, you will learn to create applications and services for the Internet of Things. You will be discover various interesting projects and understand how to publish sensor data, control devices, and react to asynchronous events using the XMPP protocol. The book also introduces chat, to interact with your devices. You will learn how to automate your tasks by using Internet of Things Service

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Platforms as the base for an application. You will understand the subject of privacy, requirements they should be familiar with, and how to avoid violating any of the important new regulations being introduced. At the end of the book, you will have mastered creating open, interoperable and secure networks of things, protecting the privacy and integrity of your users and their information. What you will learn Create your own project, run and debug it Master different communication patterns using the MQTT, HTTP, CoAP, LWM2M and XMPP protocols Build trust-based as hoc networks for open, secure and interoperable communication Explore the IoT Service Platform Manage the entire product life cycle of devices Understand and set up the security and privacy features required for your system Master interoperability, and how it is

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solved in the realms of HTTP, CoAP, LWM2M and XMPP

Who this book is for If you're a developer or electronic engineer and are curious about the Internet of Things, this is the book for you. With only a rudimentary understanding of electronics and Raspberry Pi 3, and some programming experience using managed code, such as C# or Java, you will be taught to develop state-of-the-art solutions for the Internet of Things.

End to end solutions for IoT enthusiasts and web developers
About This Book Leverage the capability of IoT with the combination of Raspberry Pi 3 and JavaScript (ES5/ES6)
Develop a health monitoring device along with some cool projects like Smart Agriculture & Raspberry Pi 3 based

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surveillance. A practical book which will help you build Mobile/Web/Desktop apps that will show how to manage and monitor data from sensors and actuators in real time. Who This Book Is For This book targets IoT enthusiasts and web developers who would like to build IoT-based applications with Raspberry Pi, Arduino and JavaScript. Some knowledge about electronics and familiarity with programming concepts (JavaScript - ES5/ES6) is expected. What You Will Learn Integrate sensors and actuators with the cloud and control them for your Smart Weather Station. Develop your very own Amazon Alexa integrating with your IoT solution Define custom rules and execute jobs on certain data events using IFTTT Build a simple surveillance solutions using Amazon Recognition & Raspberry Pi 3 Design a fall detection system

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and build a notification system for it. Use Amazon Rekognition for face detection and face recognition in your Surveillance project In Detail In this world of technology upgrades, IoT is currently leading with its promise to make the world a more smarter and efficient place. This book will show you how to build simple IoT solutions that will help you to understand how this technology works. We would not only explore the IoT solution stack, but we will also see how to do it with the world's most misunderstood programming language - JavaScript. Using Raspberry Pi 3 and JavaScript (ES5/ES6) as the base to build all the projects, you will begin with learning about the fundamentals of IoT and then build a standard framework for developing all the applications covered in this book. You will then move on to build a weather

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station with temperature, humidity and moisture sensors and further integrate Alexa with it. Further, you will build a smart wearable for understanding the concept of fall detection. You will then extend it with the 'If This Then That' (IFTTT) rules engine to send an email on fall detection. Finally, you will be working with the Raspberry Pi 3 camera module and surveillance with a bit of facial detection using Amazon Rekognition platform. At the end of the book, you will not only be able to build standalone exciting IoT applications but also learn how you can extend your projects to another level. Style and Approach This book will follow a project based approach where each chapter will teach the readers to build a standalone project. It will not only guide you to build exciting projects but will also teach you to extend your project to

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A practical project-based guide to help you build and control your IoT projects

Key Features

- Leverage the full potential of IoT with the combination of Raspberry Pi 3 and Python
- Build complex Python-based applications with IoT
- Work on various IoT projects and understand the basics of electronics

Book Description

The Internet of Things (IOT) has managed to attract the attention of researchers and tech enthusiasts, since it powerfully combines classical networks with instruments and devices. In Internet of Things Programming Projects, we unleash the power of Raspberry Pi and Python to create engaging projects. In the first part of the book, you'll be introduced to the Raspberry Pi, learn how to set it up, and

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then jump right into Python programming. Then, you'll dive into real-world computing by creating a "Hello World" app using flash LEDs. As you make your way through the chapters, you'll go back to an age when analog needle meters ruled the world of data display. You'll learn to retrieve weather data from a web service and display it on an analog needle meter, and build a home security system using the Raspberry Pi. The next project has a modern twist, where we employ the Raspberry Pi to send a signal to a web service that will send you a text when someone is at the door. In the final project, you take what you've learned from the previous two projects and create an IoT robot car that you can use to monitor what your pets are up to when you are away. By the end of this book, you will be well versed in almost every

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possible way to make your IoT projects stand out. What you will learn

Install and set up a Raspberry Pi for IoT development

Learn how to use a servo motor as an analog needle meter to read data

Build a home security dashboard using an infrared motion detector

Communicate with a web service that sends you a message when the doorbell rings

Receive data and display it with an actuator connected to the Raspberry Pi

Build an IoT robot car that is controlled through the internet

Who this book is for

Internet of Things Programming Projects is for Python developers and programmers who are interested in building their own IoT applications and IoT-based projects. It is also targeted at IoT programmers and developers who are looking to build exciting projects with Python.

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Use the Raspberry Pi and modern computing techniques to build industrial Internet of Things systems. Principles and theoretical aspects of IoT technologies combine with hands-on projects leading to detailed descriptions of several industrial IoT applications. This book presents real-life IoT applications based on the Raspberry Pi, beyond the relatively simplistic demos built for educational purposes or hobbyists. You'll make the transition from tinkering with a couple of sensors and simple devices to building fully developed products for commercial use and industrial systems. You'll also work with sensors and actuators, web technologies used for communications in IoT networks, and the large-scale deployment of IoT software solutions. And see how to design

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these systems as well as maintain them long term. See the Raspberry Pi in a new light that highlights the true industrial potential of the device. Move beyond connecting an LED to the Raspberry Pi and making it blink to actually managing a network of IoT devices. What You'll Learn Design industrial and large scale professional Internet of Things systems Extend your basic IoT knowledge by building advanced products Learn how large scale IoT systems are deployed and maintained Who This Book Is For Advanced hobbyists who want to stretch their abilities into the professional sector. Also professional industrial engineers looking for low-cost solutions to basic IoT needs.

Build and program projects that tap into the Internet of Things

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(IoT) using Arduino, Raspberry Pi, and BeagleBone Black!

This innovative guide gets you started right away working with the most popular processing platforms, wireless communication technologies, the Cloud, and a variety of sensors. You'll learn how to take advantage of the utility and versatility of the IoT and connect devices and systems to the Internet using sensors. Each project features a list of the tools and components, how-to explanations with photos and illustrations, and complete programming code. All projects can be modified and expanded, so you can build on your skills. The Internet of Things: DIY Projects with Arduino, Raspberry Pi, and BeagleBone Black Covers the basics of Java, C#, Python, JavaScript, and other programming languages used in the projects Shows you how to use IBM's

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Net Beans IDE and the Eclipse IDE Explains how to set up small-scale networks to connect the projects to the Internet Includes essential tips for setting up and using a MySQL database. The fun, DIY projects in the book include:

Raspberry Pi home temperature measurements Raspberry Pi surveillance webcams Raspberry Pi home weather station Arduino garage door controller Arduino irrigation controller Arduino outdoor lighting controller Beaglebone message panel Beaglebone remote control SDR Machine-to-machine demonstration project

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

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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

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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

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