

# Internet Of Things With The Raspberry Pi Build Internet Of Things Projects Using The Raspberry Pi Platform

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discover how to build your own smart internet of things projects and bring a new degree of interconnectivity to your world key features learn how to extract and analyse data from physical devices and build smart iot projects master the skills of building enticing projects such as a neural network autonomous car computer vision through a camera and cloud based

iot applications this project based guide leverages revolutionary computing chips such as raspberry pi arduino and so on book descriptioninternet of things iot is a groundbreaking technology that involves connecting numerous physical devices to the internet and controlling them creating basic iot projects is common but imagine building smart iot projects that can extract data from physical devices thereby making decisions by themselves our book overcomes the challenge of analyzing data from physical devices and accomplishes all that your imagination can dream up by teaching you how to build smart iot projects basic statistics and various applied algorithms in data science and machine learning are introduced to accelerate your knowledge of how to integrate a decision system into a physical device this book contains iot projects such as building a smart temperature controller creating your own vision machine project building an autonomous mobile robot car controlling iot projects through voice commands building iot applications utilizing cloud technology and data science and many more we will also leverage a small yet powerful iot chip raspberry pi with arduino in order to integrate a smart decision making system in the iot projects what you will learn implement data science in your iot projects and build a smart temperature controller create a simple machine learning application and implement decision system concepts develop a vision machine using opencv build a robot car with manual and automatic control implement speech modules with your own voice commands for iot projects connect iot to a cloud based server who this book is for if you are hobbyist who is keen on making smart iot projects then this book is for you you should have a basic knowledge of python

create and program internet of things projects using the espressif esp32 key features getting to know the all new powerful esp32 boards and build interesting internet of things projects configure your esp32 to the cloud technologies and explore the networkable modules that will be utilised in your iot projects a step by step guide that teaches you the basic to advanced iot concepts with esp32 book descriptionesp32 is a low cost mcu with integrated wi fi and ble various modules and development boards based on esp32 are available for building iot applications easily wi fi and ble are a common network stack in the internet of things application these network modules can leverage your business and projects needs for cost effective benefits this book will serve as a fundamental guide for developing an esp32 program we will start with gpio programming involving some sensor devices then we will study esp32 development by building a number of iot projects such as weather stations sensor loggers smart homes wi fi cams and wi fi wardriving lastly we will enable esp32 boards to execute interactions with mobile applications and cloud servers such as aws by the end of this book you will be up and running with various iot project based esp32 chip what you will learn understand how to build a sensor monitoring logger create a weather station to sense temperature and humidity using esp32 build your own wi fi wardriving with esp32 use ble to make interactions between esp32 and android understand how to create connections to interact between esp32 and mobile applications learn how to interact between esp32 boards and cloud servers build an iot application based esp32 board who this book is for this book is for those who want to build a powerful and inexpensive iot projects using the esp32 also for

those who are new to iot or those who already have experience with other platforms such as arduino esp8266 and raspberry pi

build and program projects that tap into the internet of things 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 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

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