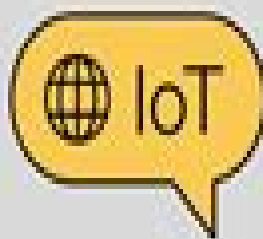




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ESP8266 Home Automation Projects Catalin Batrinu, 2017-11-28 Unleash the power of the ESP8266 and build a complete home automation system with it Key Features Harness the power of the ESP8266 Wi Fi chip to build an effective Home Automation System Learn about the various ESP8266 modules Configuring the ESP8266 and making interesting home automation projects A step by step guide on the ESP8266 chip and how to convert your home into a smart home Book Description The ESP8266 is a low cost yet powerful Wi Fi chip that is becoming more popular at an alarming rate and people have adopted it to create interesting projects With this book you will learn to create and program home automation projects using the ESP8266 Wi Fi chip You will learn how to build a thermostat to measure and adjust the temperature accordingly and how to build a security system using the ESP8266 Furthermore you will design a complete home automation system from sensor to your own cloud You will touch base on data monitoring controlling appliances and security aspects By the end of the book you will understand how to completely control and monitor your home from the cloud and from a mobile application You will be familiar with the capabilities of the ESP8266 and will have successfully designed a complete ready to sell home automated system What you will learn Get compile install and configure an MQTT server Use the Wi Fi connectivity feature to control appliances remotely Control several home appliances using the ESP8266 Wi Fi chip Control and monitor your home from the cloud using ESP8266 modules Stream real time data from the ESP8266 to a server over WebSockets Create an Android mobile application for your project Who this book is for This book is targeted at people who want to build connected and inexpensive home automation projects using the ESP8266 Wi Fi chip and to completely automate their homes A basic understanding of the board would be an added advantage

Raspberry Pi 3 Home Automation Projects

Shantanu Bhadoria, Ruben Oliva Ramos, 2017-11-06 With futuristic homes on the rise learn to control and automate the living space with intriguing IoT projects About This Book Build exciting six end to end home automation projects with Raspberry Pi 3 Seamlessly communicate and control your existing devices and build your own home automation system Automate tasks in your home through projects that are reliable and fun Who This Book Is For This book is for all those who are excited about building home automation systems with Raspberry Pi 3 It s also for electronic hobbyists and developers with some knowledge of electronics and programming What You Will Learn Integrate different embedded microcontrollers and development boards like Arduino ESP8266 Particle Photon and Raspberry Pi 3 creating real life solutions for day to day tasks and home automation Create your own magic mirror that lights up with useful information as you walk up to it Create a system that intelligently decides when to water your garden and then goes ahead and waters it for you Use the Wi fi enabled Adafruit ESP8266 Huzzah to create your own networked festive display lights Create a simple machine learning application and build a parking automation system using Raspberry Pi Learn how to work with AWS cloud services and connect your home automation to the cloud Learn how to work with Windows IoT in Raspberry Pi 3 and build your own Windows IoT Face

Recognition door locking system In Detail Raspberry Pi 3 Home Automation Projects addresses the challenge of applying real world projects to automate your house using Raspberry Pi 3 and Arduino You will learn how to customize and program the Raspberry Pi 3 and Arduino based boards in several home automation projects around your house in order to develop home devices that will really rejuvenate your home This book aims to help you integrate different microcontrollers like Arduino ESP8266 Wi Fi module Particle Photon and Raspberry Pi 3 into the real world taking the best of these boards to develop some exciting home automation projects You will be able to use these projects in everyday tasks thus making life easier and comfortable We will start with an interesting project creating a Raspberry Pi Powered smart mirror and move on to Automated Gardening System which will help you build a simple smart gardening system with plant sensor devices and Arduino to keep your garden healthy with minimal effort You will also learn to build projects such as CheerLights into a holiday display a project to erase parking headaches with OpenCV and Raspberry Pi 3 create Netflix s The Switch for the living room and lock down your house like Fort Knox with a Windows IoT face recognition based door lock system By the end of the book you will be able to build and automate the living space with intriguing IoT projects and bring a new degree of interconnectivity to your world Style and approach End to end home automation projects with Raspberry Pi 3

Building Smart Home Automation Solutions with Home Assistant Marco Carvalho,2023-09-15 A step by step guide to building cost effective and complete home automation DIY projects using tools such as Home Assistant Raspberry Pi IoT devices the Tasmota sensor ESP32 and Grafana Key Features Learn by doing using real life practical examples to build your own home automation system Create hack and configure IoT devices through hands on projects to be used with or without Home Assistant Customize your home automation system using Home Assistant Node RED InfluxDB and Grafana Purchase of the print or Kindle book includes a free PDF eBook Book DescriptionPicture a home where you can adjust the lighting based on the time of day or when movement is detected In this same home you can also detect when a door is unexpectedly opened or an alarm is triggered in response to any suspicious activity Such automated devices form part of a smart home and the exciting part is that this book teaches you how to create and manage these devices all by yourself This book helps you create your own ecosystem to automate your home using Home Assistant software You ll begin by understanding the components of a home automation system and learn how to create hack and configure them to operate seamlessly Then you ll set up Home Assistant on a Raspberry Pi to work as a home automation server build your own IoT sensors based on ESP32 ESP8266 and set up real life automation use cases using hands on examples and projects The chapters will also guide you in using software tools such as Node RED InfluxDB and Grafana to manage present and use data collected from your Home Automation devices Finally you ll gain insights into new technologies and trends in the home automation space to help you continue with your learning journey By the end of this book you ll be able to build your own creative IoT based home automation system using different hardware and software technologies What you will learn Understand the fundamental concepts of home automation

systems Set up a home automation system using Home Assistant and Raspberry Pi Create and configure ESP8266 based sensors to work with Home Assistant Hack a commercial actuator to work with Home Assistant using Tasmota Create automations customize and use applications with Home Assistant Leverage IoT software tools to take your home automation to the next level Work on hands on projects including LED strip lights and an ESP32 five zone temperature logger Explore home automation FAQs emerging technologies and trends Who this book is for The book is for engineers developers students makers and enthusiasts who re working on or interested in working with electronics and IoT devices embedded systems systems integration computer software and coding to develop their own smart home automation systems Technicians teachers and other professionals who want to learn home automation related technologies will also find this book useful Prior experience of working with Raspberry Pi creating hardware prototypes and software programming will be beneficial

Zero to Hero: ESP8266 Manoj R. Thakur, Super book for becoming super hero in Internet of Things world It takes you from zero to become master in ESP8266 programming using Arduino IDE IoT is recent trend in market you can built anything with help of this book covers from basics to advance level Includes getting data to VB net drawing graphs using google gadgets to show gauges hardware design aspects and much more **Smart Home Automation with IoT** Dipankar Saha,2024-06-26 Enable smart homes with IoT open source technologies KEY FEATURES Learn to make your home smarter with IoT and AI at a very low cost Live examples along with code and circuit samples which you can readily use Learn scenario based AI based home automation techniques DESCRIPTION This practical guide Smart Home Automation with IoT shows you how to create a smart home without breaking the bank Instead of relying on expensive closed systems you utilize the power of the Internet of Things IoT with open source software to design a custom smart home experience that perfectly suits your needs This book teaches you to create smart home IoT solutions using Raspberry Pi and microcontrollers like Arduino NodeMCU ESP8266 and ESP32 You will learn to program these microcontrollers control relay modules and use sensors for data collection The guide covers using OpenHAB InfluxDB Mosquitto MQTT Broker and Grafana with Raspberry Pi enabling a unified system without coding It also shows how to connect OpenHAB to Alexa or Google Home for voice commands and automate tasks like lighting Bonus content includes using Raspberry Pi GPIO pins AI based hand gesture and face detection and Docker containers By the end of this book you will be a confident smart home builder equipped with the knowledge and skills to design implement and manage a customized system using open source software WHAT YOU WILL LEARN Learn how to implement smart home solution using open source technologies Learn programming microcontrollers ESP32 ESP8266 Arduino using Arduino IDE to integrate with relays and sensors Learn how to install and set up Raspberry Pi for home automation server Learn how to develop Python programs for AI based automation scenarios WHO THIS BOOK IS FOR This book aims to be a useful guide for IoT enthusiasts engineers and professionals as well as students who want to learn how to DIY smart home automation with IoT TABLE OF CONTENTS 1 Introduction to IoT and Home Automation 2

Setting up Home Automation Platform on Raspberry Pi 3 Using NodeMCU and ESP32 with Relays and Actuators as Control Switch 4 Connecting Various Common Sensors using Arduino 5 Connect Sensors and Relays with OpenHAB IoT and Voice Chatbots 6 Developing Dashboards using Grafana to Monitor Smart Home and IoT Devices 7 Get more out of Raspberry Pi

Open Source Home Automation Wolfgang Beer,2021-12-04 About This Book Start into the world of Open Source Home Automation with an introduction to the Home Assistant platform Dive into soldering your own smart home sensors for measuring temperature and humidity inside your rooms and attach it to a powerful yet free and open home automation system Work through simple yet insightful examples that will get you up and running with home automation Home Assistant and soldering your own tailor made home automation sensors Who This Book Is For This book is for home automation enthusiasts makers and tinkerers that are willing to take a step towards soldering and programming their own home automation sensors The examples given within this book are easy to follow and just require just a very basic level of programming skills What You Will Learn Introduction into the free and Open Source Home Assistant software How to run your own Home Automation server How to host a Home Assistant server in Docker Configure various sensors and actuators Configure automation scripts to control your home Send notifications with Telegram How to solder a sensor on top of a cheap ESP8266 board How to attach your own sensors to Home Assistant In Detail Controlling all the home electronic appliances automatically or from remote is a fascinating topic Various home automation vendors are offering all kinds of sensors and actuators for controlling your home Control your lights heating pool pump or door cam there are unlimited possibilities By diving into the world of Open Source home automation systems you will break out of the vendor locked into the world of smart home in order to gain a lot of flexibility This book also shows you how to solder your own little sensors by using the 5 low cost ESP8266 control board

Recent Advances in Materials and Modern Manufacturing I. A. Palani,P. Sathiya,D. Palanisamy,2022-05-26 This book presents the select proceedings of the fourth International Conference on Advanced Materials and Modern Manufacturing ICAMMM 2021 It covers broad areas such as advanced mechanical engineering material science and manufacturing process Various topics discussed in this book include green manufacturing green materials Industry 4.0 additive manufacturing precision engineering sustainability manufacturing operations management and so on Given its contents the book will be useful for students researchers engineers and professionals working in the area of mechanical engineering and its allied fields

Soft Computing for Problem Solving Kusum Deep,Millie Pant,Atulya K. Nagar,2025-09-26 This proceedings volume presents 41 high quality research contributions at the forefront of soft computing theory and applications and real world impact The third volume from this conference its chapters reflect the current trajectory of soft computing research covering advances in machine learning neural networks fuzzy systems nature inspired algorithms and big data analytics Applications discussed range across critical domains such as healthcare education legal systems cybersecurity environmental monitoring and industrial automation Noteworthy contributions include studies on

smart assistive devices for Alzheimer's patients intelligent classification of recycled materials and AI based criminal face detection systems On the theoretical side the volume includes novel algorithmic developments such as the Shuffled Flamingo Search Algorithm and structural insights into swarm based optimisation The volume illustrates how soft computing continues to address complex real world problems through adaptive scalable and human centric approaches It also captures the spirit of interdisciplinary engagement with contributions from early career researchers alongside seasoned academics enriching the community's collaborative potential This book will be of interest to researchers engineers practitioners and postgraduate students working in artificial intelligence optimisation and computational intelligence particularly those interested in the translational impact of soft computing across diverse sectors

Python Programming Recipes for IoT Applications Jivan S. Parab, Madhusudan Ganuji Lanjewar, Marlon Darius Sequeira, Gourish Naik, Arman Yusuf Shaikh, 2023-06-07 The book comprehensively covers the most important applications of the internet of things IoT using Python programming on Raspberry pi Micropython Py Board and NVIDIA Jetson Board The authors have used an immersive hands on approach to help readers gain expertise in developing working code for real world IoT applications The book focuses on industry standard embedded platforms for IoT applications It also gives a glimpse of python programming and setup configuration of these embedded platforms The later chapter highlights basic interface applications with Raspberry Pi Exclusive advanced IoT applications on the Micropython Pyboard are also covered The last two chapters deal with the NVIDIA Jetson Nano board programming for machine learning applications with FoG cloud computing The various IoT applications with different embedded platforms in this volume are best suited for undergraduate postgraduate students and researchers who want to get exposed to python programming for IoT applications This book will enable readers to design their own embedded IoT products

Data Engineering and Communication Technology K. Srujan Raju, Roman Senkerik, Satya Prasad Lanka, V. Rajagopal, 2020-01-08 This book includes selected papers presented at the 3rd International Conference on Data Engineering and Communication Technology ICDECT 2K19 held at Stanley College of Engineering and Technology for Women Hyderabad from 15 to 16 March 2019 It features advanced multidisciplinary research towards the design of smart computing information systems and electronic systems It also focuses on various innovation paradigms in system knowledge intelligence and sustainability which can be applied to provide viable solutions to diverse problems related to society the environment and industry

Machine Intelligence and Data Analytics for Sustainable Future Smart Cities Uttam Ghosh, Yassine Maleh, Mamoun Alazab, Al-Sakib Khan Pathan, 2021-05-31 This book presents the latest advances in computational intelligence and data analytics for sustainable future smart cities It focuses on computational intelligence and data analytics to bring together the smart city and sustainable city endeavors It also discusses new models practical solutions and technological advances related to the development and the transformation of cities through machine intelligence and big data models and techniques This book is helpful for students and researchers as well as practitioners

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EXPERIMENTS Yashavant kanetkar/Shrirang korde,2018-05-31 This book has been written in such a way that you will learn to work on IOT experiments by using IOT kits Board and Sensors Arduino tools Development steps interaction verification Hardware setup sketch and many more This book will gives you knowledge in programmer s way Hence rather than discussing IoT in general this book shows you how to create working IoT experiments using KICIT IoT Kit CONTENTSIOT Kit Overview LED PatternSwitch Based LED Counter Analog I O Fade LEDs Using Potentiometer Using MillsRemote Control Based Melody Player Motor Speed ControlAccelerometer Based Rotation ControlWireless ConnectivitySend EmailDigital ClockWAMP Server Based Temperature LoggerInternet Intranet Based LED Control Internet Based TEMP Logger with Tweets Internet Based Home AutomationStreet Light ControlHome Security SystemWater Level Monitor Multicolor ControlSoil Moisture Monitor SD Card Logger Arduino Pins and Concepts **Sustainable Development through**

Machine Learning, AI and IoT Pawan Whig,Nuno Silva,Ahmed A. Elngar,Nagender Aneja,Pavika Sharma,2023-11-18 This book constitutes the revised selected papers of the First International Conference ICSD 2023 virtually held in Delhi India during July 15 16 2023 The book comprises 31 full papers that were selected from a total of 129 submissions It provides insights into the latest research and advancements in sustainable development through the integration of machine learning artificial intelligence and IoT technologies It serves as a valuable resource for researchers practitioners and policymakers working in the field of sustainable development **Raspberry Pi Cookbook** Simon Monk,2022-12-08 If you ve started to work with Raspberry Pi you know that Raspberry Pi s capabilities are continually expanding The fourth edition of this popular cookbook provides more than 200 hands on recipes complete with code that show you how to run this tiny low cost computer with Linux program it with Python hook it up to sensors and motors and use it with the internet of things IoT This new edition includes new chapters on the Raspberry Pi Pico and machine learning with the Raspberry Pi These easy to use recipes will show you step by step how to Set up your Raspberry Pi and connect to a network Work with its Linux based operating system Program your Raspberry Pi with Python Give your Pi eyes with computer vision Recognize objects from video and sounds using machine learning Control hardware through the GPIO connector Use your Raspberry Pi to run different types of motors Work with switches keypads and other digital inputs Use sensors to measure temperature light and distance Connect to IoT devices in various ways and automate your home Use the Raspberry Pi Pico microcontroller board with your Raspberry Pi

Handbook of Research on the Internet of Things Applications in Robotics and Automation Singh, Rajesh,Gehlot, Anita,Jain, Vishal,Malik, Praveen Kumar,2019-09-13 With near universal internet access and ever advancing electronic devices the ability to facilitate interactions between various hardware and software provides endless possibilities Though internet of things IoT technology is becoming more popular among individual users and companies more potential applications of this technology are being sought every day There is a need for studies and reviews that discuss the methodologies concepts and possible problems of a technology that requires little or no human interaction between systems

The Handbook of Research on the Internet of Things Applications in Robotics and Automation is a pivotal reference source on the methods and uses of advancing IoT technology While highlighting topics including traffic information systems home security and automatic parking this book is ideally designed for network analysts telecommunication system designers engineers academicians technology specialists practitioners researchers students and software developers seeking current research on the trends and functions of this life changing technology Internet of Things with ESP8266 Marco Schwartz,2016-07-29 Build amazing Internet of Things projects using the ESP8266 Wi Fi chip Key Features Get to know the powerful and low cost ESP8266 and build interesting projects in the field of Internet of Things Configure your ESP8266 to the cloud and explore the networkable modules that will be utilized in the IoT projects This step by step guide teaches you the basics of IoT with ESP8266 and makes your life easier Book DescriptionThe Internet of Things IoT is the network of objects such as physical things embedded with electronics software sensors and connectivity enabling data exchange ESP8266 is a low cost WiFi microcontroller chip that has the ability to empower IoT and helps the exchange of information among various connected objects ESP8266 consists of networkable microcontroller modules and with this low cost chip IoT is booming Kick starting with an introduction to the ESP8266 chip we will demonstrate how to build a simple LED using the ESP8266 You will then learn how to read send and monitor data from the cloud Next you ll see how to control your devices remotely from anywhere in the world Furthermore you ll get to know how to use the ESP8266 to interact with web services such as Twitter and Facebook In order to make several ESP8266s interact and exchange data without the need for human intervention you will be introduced to the concept of machine to machine communication The latter part of the book focuses more on projects including a door lock controlled from the cloud building a physical Bitcoin ticker and doing wireless gardening With this book you will be able to create and program Internet of Things projects using the ESP8266 WiFi chip What you will learn Control various devices from the cloud Interact with web services such as Twitter or Facebook Make two ESP8266 boards communicate with each other via the cloud Send notifications to users of the ESP8266 via email text message or push notifications Build a physical device that indicates the current price of Bitcoin Build a simple home automation system that can be controlled from the cloud Create your own cloud platform to control ESP8266 devices Who this book is for This book is for those who want to build powerful and inexpensive IoT projects using the ESP8266 WiFi chip including those who are new to IoT or those who already have experience with other platforms such as Arduino **Home Automation with the ESP8266** Marco Schwartz,2016-02-17 Use the ESP8266 WiFi chip to build home automation projects Written by embedded electronics home automation expert Marco Schwartz Home Automation with the ESP8266 is a complete guide in which you will learn how to use the ESP8266 WiFi chip to build home automation systems Inside this book you will find several clear easy to follow tutorials about how to use the ESP8266 for home automation applications Connect home automation components to the ESP8266 Control a lamp remotely from your smartphone using the ESP8266 Create a

whole home automation system based on the ESP8266 Home Automation with the ESP8266 will teach you everything you need to know so you can start building home automation systems with the ESP8266 WiFi chip Whatever your current skill level you will enjoy building all the home automation projects that you will find in this book *Arduino Home Automation Projects* Marco Schwartz,2014-07-23 This book is divided into projects that are explained in a step by step format with practical instructions that are easy to follow If you want to build your own home automation systems wirelessly using the Arduino platform this is the book for you You will need to have some basic experience in Arduino and general programming languages such as C and C to understand the projects in this book ESP8266 Internet of Things Cookbook Marco Schwartz,2017-04-27 Exploring the low cost WiFi module Key Features Leverage the ESP8266 s on board processing and storage capability Get hand on experience of working on the ESP8266 Arduino Core and its various libraries A practical and enticing recipe based book that will teach you how to make your environment smart using the ESP8266 Book DescriptionThe ESP8266 Wi Fi Module is a self contained System on Chip SOC with an integrated TCP IP protocol stack and can give any microcontroller access to your Wi Fi network It is capable of either hosting an application or offloading all Wi Fi networking functions from another application processor This book contains practical recipes that will help you master all ESP8266 functionalities You will start by configuring and customizing the chip in line with your requirements Then you will focus on core topics such as on board processing sensors GPIOs programming networking integration with external components and so on We will also teach you how to leverage Arduino using the ESP8266 and you ll learn about its libraries file system OTA updates and so on The book also provide recipes on web servers testing connecting with the cloud and troubleshooting techniques Programming aspects include MicroPython and how to leverage it to get started with the ESP8266 Towards the end we will use these concepts and create an interesting project IOT By the end of the book readers will be proficient enough to use the ESP8266 board efficiently What you will learn Measure data from a digital temperature and humidity sensor using the ESP8266 Explore advanced ESP8266 functionalities Control devices from anywhere in the world using MicroPython Troubleshoot issues with cloud data monitoring Tweet data from the Arduino board Build a cloud connected power switch with the ESP8266 Create an ESP8266 robot controlled from the cloud Who this book is for This book is targeted at IOT enthusiasts who are well versed with electronics concepts and have a very basic familiarity with the ESP8266 Some experience with programming will be an advantage **A DIY Smart Home Guide: Tools for Automating Your Home Monitoring and Security Using Arduino, ESP8266, and Android** Robert Chin,2020-03-27 Publisher s Note Products purchased from Third Party sellers are not guaranteed by the publisher for quality authenticity or access to any online entitlements included with the product Design and build custom devices that work through your phone to control your home remotely Setting up a smart home can be costly intimidating and invasive This hands on guide presents you with an accessible and cheap way to do it yourself using free software that will enable your home and your mobile devices to

communicate A DIY Smart Home Guide Tools for Automating Your Home Monitoring and Security Using Arduino ESP8266 and Android contains step by step plans for easy to build projects that work through your phone to control your home environment remotely All the projects in the book are geared towards helping you create a smart home with fun and useful examples such as wireless temperature and humidity monitors automated lights sensors that can trigger alarms in the event of broken glass fire window entry or water heater leakage and much more All projects can be accomplished with no previous knowledge for those with some background in C C or JAVA the projects can be customized All projects use easy free flexible open source platforms such as Arduino Focuses projects on real world remote control activations for protecting the home Written by a smart home expert and experienced author

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