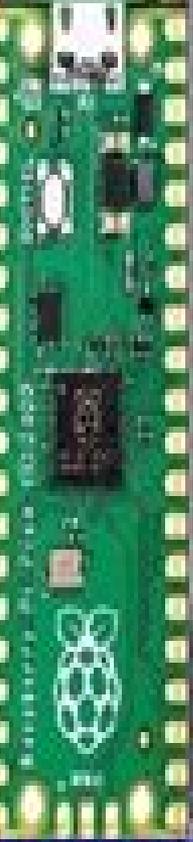


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IMAGE TO
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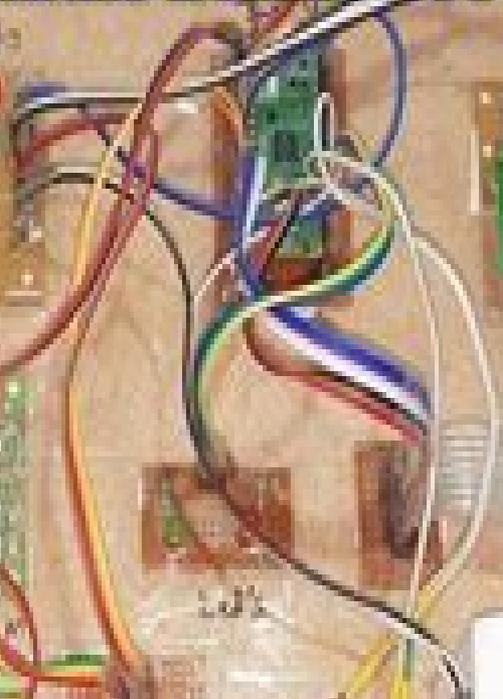
SMS ALERT



GSM
SIM800L



R307
FINGER
PRINT



MOTOR



ESP32
CAM



16X2 LCD
DISPLAY



4X3
KEYPAD



ALARM

Block diagram



R307
module

Building A Home Security System With Raspberry Pi

William Pretty



Building A Home Security System With Raspberry Pi:

Raspberry Pi Security Barrett Williams, ChatGPT, 2024-08-28 Unlock the Power of DIY Home Security with Raspberry Pi Security Discover the ultimate guide to transforming your home into a secure fortress with the cutting edge technology of Raspberry Pi Raspberry Pi Security is the comprehensive manual for anyone looking to enhance their home security system using one of the most versatile and affordable pieces of tech on the market Whether you are a tech enthusiast or a beginner looking to embark on your first Raspberry Pi project this eBook is your step by step roadmap to building customizing and maintaining a robust security system Start your journey with an in depth introduction to Raspberry Pi security systems diving into the evolution of home security and why Raspberry Pi is the ideal choice for DIY enthusiasts Get acquainted with the essential components and tools needed to get your system up and running From setting up your Raspberry Pi and installing the operating system to mastering basic commands you'll progress through detailed chapters on networking concepts that ensure your home network is both functional and secure Learn how to choose and integrate the right sensors and dive into motion detection camera integration and alarm system setup Raspberry Pi Security covers programming basics and advanced topics guiding you through Python for security projects data logging remote access wireless integration and voice controlled commands Explore advanced security features like facial recognition biometric sensors and AI and discover energy efficient power management techniques Stay informed with crucial legal and ethical considerations and gain insights from real world case studies Expand your system with new devices and discover resources for continuous learning Take control of your home's safety with the expert guidance provided in Raspberry Pi Security This is not just a book it's your key to creating a smarter safer home with DIY security solutions Prepare to step into the future of home security today

Building a Home Security System with Raspberry Pi Matthew Poole, 2015-12-28 Build your own sophisticated modular home security system using the popular Raspberry Pi board About This Book This book guides you through building a complete home security system with Raspberry Pi and helps you remotely access it from a mobile device over the Internet It covers the fundamentals of interfacing sensors and cameras with the Raspberry Pi so that you can connect it to the outside world It follows a modular approach so that you can choose the modules and features you want for your customized home security system Who This Book Is For This book is for anyone who is interested in building a modular home security system from scratch using a Raspberry Pi board basic electronics sensors and simple scripts This book is ideal for enthusiastic novice programmers electronics hobbyists and engineering professionals It would be great if you have some basic soldering skills in order to build some of the interface modules What You Will Learn Understand the concepts behind alarm systems and intrusion detection devices Connect sensors and devices to the on board digital GPIO ports safely Monitor and control connected devices easily using Bash shell scripting Build an I/O port expander using the I2C bus and connect sensors and anti tamper circuits Capture and store images using motion detectors and cameras Access and manage your system remotely

from your mobile phone Receive intrusion alerts and images through your e mail Build a sophisticated multi zone alarm system In Detail The Raspberry Pi is a powerful low cost credit card sized computer which lends itself perfectly as the controller for a sophisticated home security system Using the on board interfaces available the Raspberry Pi can be expanded to allow the connection of a virtually infinite number of security sensors and devices The Raspberry Pi has the processing power and interfaces available to build a sophisticated home security system but at a fraction of the cost of commercially available systems Building a Home Security System with Raspberry Pi starts off by showing you the Raspberry Pi and how to set up the Linux based operating system It then guides you through connecting switch sensors and LEDs to the native GPIO connector safely and how to access them using simple Bash scripts As you dive further in you ll learn how to build an input output expansion board using the I2C interface and power supply allowing the connection of the large number of sensors needed for a typical home security setup In the later chapters of the book we ll look at more sophisticated topics such as adding cameras remotely accessing the system using your mobile phone receiving intrusion alerts and images by e mail and more By the end of the book you will be well versed with the use of Raspberry Pi to power a home based security system that sends message alerts whenever it is triggered and will be able to build a truly sophisticated and modular home security system You will also gain a good understanding of Raspberry Pi s ecosystem and be able to write the functions required for a security system

Style and approach This easy to follow guide comprises a series of projects where every chapter introduces a new concept and at the end of the book all these concepts are brought together to create an entire home security system This book features clear diagrams and code every step of the way

[Raspberry Pi Home Security System](#) Barrett Williams,ChatGPT,2024-08-27 Transform Your Home into a Fortress Explore Raspberry Pi Home Security System Discover the cutting edge world of DIY home security with the Raspberry Pi Home Security System eBook your ultimate guide to creating a comprehensive and cost effective surveillance solution for your home Unlock the power of Raspberry Pi a versatile and affordable mini computer to safeguard your property like never before What You ll Learn Chapter 1 Introduction to Smart Home Surveillance Dive into the realm of smart home security systems Understand the core concepts advantages and how Raspberry Pi sets the stage for an accessible and powerful home surveillance system Chapter 2 Getting Started with Raspberry Pi Choose the perfect Raspberry Pi model for your setup and get step by step guidance on setting it up installing vital software and preparing your device for home security applications Chapter 3 Networking Basics for Home Security Learn the fundamentals of home networking Securely set up Wi Fi for your Raspberry Pi and protect your network from potential threats Chapter 4 Essential Components for Home Surveillance Discover the right cameras sensors alarms and power supplies to build a robust security system tailored to your needs Chapter 5 Installing and Configuring Cameras Master the art of camera placement software installation and configuration to ensure optimal surveillance coverage Chapter 6 Motion Detection and Alerts Implement motion detection software and configure alert notifications keeping you informed

about any suspicious activities around your home Chapter 7 Storage Solutions for Surveillance Footage Delve into local and cloud storage options set up Network Attached Storage NAS and configure various storage solutions to keep your footage secure Chapter 8 Remote Access and Monitoring Set up remote access capabilities and utilize mobile apps for real time monitoring of your home from anywhere in the world Chapter 9 Automating Your Home Security System Explore automation techniques using smart home hubs and integrations with other smart devices for a seamlessly intelligent security system Chapter 10 Facial Recognition with Raspberry Pi Implement advanced facial recognition technology to enhance your home security measures Chapter 11 Building a Doorbell Camera Construct a smart doorbell camera integrate it with your existing security setup and gain peace of mind with every visitor Chapter 12 Advanced Customizations and Features Create custom scripts add new sensors and triggers and design a user friendly interface tailored to your preferences Chapter 13 Troubleshooting Common Issues Navigate common connectivity camera and software problems with ease using practical troubleshooting tips Chapter 14 Ensuring System Security and Privacy Protect your devices and data with best practices in security and privacy maintaining the integrity of your surveillance system Chapter 15 Expanding Your System Explore ways to add more cameras integrate with other systems and stay ahead with future home security innovations Chapter 16 Real Life Examples and Case Studies Get inspired by success stories and learn valuable lessons from common pitfalls to advance your DIY security projects Chapter 17 Conclusion and Next Steps Recap key learnings discover additional resources and take the next steps in elevating your home security Empower your home with innovative security solutions today Dive into the Raspberry Pi Home Security System eBook and transform your living space into a smart fortress Order now and embark on your DIY home security journey *Building a Home Security System with BeagleBone* Bill Pretty,2013-12-17 Building a Home Security System with BeagleBone is a practical hands on guide for practical hands on people The book includes step by step instructions for assembling your own hardware on professionally manufactured PCB s and setting up the software on your system This book is for anyone who is interested in alarm systems and how they work for hobbyists and basement tinkerers who love to build things If you want to build the hardware described in this book you will need some basic soldering skills but all the parts are of the thru hole variety and are very easy to put together When it comes to software you can just run it as is but if you want to modify the code you will need knowledge of Java and IDEs *SMART SECURITY SYSTEM FOR HOME AUTOMATION* C Sridhar Babu, **Information Security, Privacy and Digital Forensics** Bhavesh N. Gohil,Sankita J. Patel,Naveen Kumar Chaudhary,S. S. Iyengar,Chirag Modi,Mukti Padhya,2026-01-01 This volume contains the selected proceedings of the International Conference on Information Security Privacy and Digital Forensics ICISPD 2023 The content highlights novel contributions and recent developments in areas such as cyber attacks and defenses computer forensics cybersecurity database forensics cyber threat intelligence data analytics for security anonymity penetration testing incident response Internet of Things security malware and botnets social media security humanitarian forensics software and

media piracy crime analysis and hardware security among others This volume will serve as a valuable resource for researchers in both industry and academia who are working in the fields of security privacy and digital forensics from both technological and social perspectives Proceedings of Mechanical Engineering Research Day 2019 Mohd Fadzli Bin Abdollah,2019-08-05 This e book is a compilation of papers presented at the 6th Mechanical Engineering Research Day MERD 19 Kampus Teknologi UTeM Melaka Malaysia on 31 July 2019 *Proceedings of 3rd International Conference on Smart Computing and Cyber Security* Prasant Kumar Pattnaik,Mangal Sain,Ahmed A. Al-Absi,2024-07-27 This book presents high quality research papers presented at the Third International Conference on Smart Computing and Cyber Security Strategic Foresight Security Challenges and Innovation SMARTCYBER 2023 held during December 5 6 2023 in the Department of Smart Computing Kyungdong University Global Campus South Korea The book includes selected works from academics and industrial experts in the fields of computer science information technology and electronics and telecommunication The content addresses challenges of cyber security **Intelligent Computing and Communication Techniques** Arvind Dagur,Karan Singh,Pawan Singh Mehra,Dhirendra Kumar Shukla,2025-06-10 This book contains a prolific compilation of research papers presented at the International Conference on Intelligent Computing and Communication Techniques ICICCT 2024 Some of its key features include In depth coverage of artificial intelligence blockchain and their role in enhancing smart living and security with a focus on intelligent computing Depiction of detailed system models and architecture to illustrate the practical applications of AI Discussion on the role of AI and blockchain in banking healthcare navigation communication security etc Analysis of the challenges and opportunities presented by intelligent computing communication techniques and blockchain in healthcare education banking and related industries It is designed for academics researchers students and professionals seeking to expand their knowledge and engage with current research on artificial intelligence secure transactions real time monitoring and security *Raspberry Pi Security System* Chris Buchanan,2019-07-29 A how to guide for setting up a Raspberry Pi home security system from scratch Integrated with the cloud for access from anywhere with an internet connection This guide can be used as a great introduction or learning tool to the Rapsberry Pi for beginners but also serves as a great project for anyone that already has experience with the Raspberry Pi or other micro controllers Comes with easy to follow along pictures and scripts as well as a list of everything needed to complete the system Don t hesitate to add this fun project to your list for either yourself or the family **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

Arduino and Raspberry Pi Sensor Projects for the Evil Genius Robert Chin,2017-11-23 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 Fiendishly Clever Sensor Projects for Your Arduino and Raspberry Pi Learn to quickly build your own electronic gadgets that monitor measure and react to the real world with no prior experience required This easy to follow guide covers the programming and electronics essentials needed to build fun and educational sensor based projects with both Arduino and Raspberry Pi Arduino and Raspberry Pi Sensor Projects for the Evil Genius features step by step DIY projects that use inexpensive readily available parts You will discover how to use touch temperature moisture light sound and motion sensors even sensors that detect the presence of a human Start to finish Arduino and Raspberry Pi projects include Simon Says game Rotary encoder that controls an RGB LED Reed switch door buzzer alarm Fire alarm Sound detector Light clapper Glass break alarm Infrared motion detector Distance sensor intruder alarm Collision alarm TFT color display screen Door entry alarm with SD card logging And many more

Building a High-Tech Alarm System with Raspberry Pi (Second Edition) WILLIAM. PRETTY,2024-11-08 Details This book discusses the basic components of any alarm system All alarm systems have two basic functions First they monitor their environment looking for a change such as a door or window opening or someone moving about in the room Second they alert the legal owner or user to this change The system described in this book uses a scanning type software to detect intruders It behaves like a guard dog pacing up and down the fence line on the lookout for either an intruder or a familiar person If you have an alarm key you can disarm the system and enter With the scanning method the software is easy to write and explain It can scan eight alarm zones plus two special fire zones in about one second You don t have to be an electrical engineer to install an alarm system just a decent carpenter painter and plasterer Because this alarm system runs on 12 volts you don t have to be a licensed electrician either to install it The alarm system presented here uses Python software on the Raspberry Pi combined with some elementary electronic circuits The code described in the book as well as CAD files and a bill of materials for the alarm panel are available for free downloading The book provides the reader with examples of typical configurations coming straight from the author s experience After

reviewing the hardware components typically used in common alarm systems the author shows how to plan one yourself To implement a modular alarm no matter if it is for a single house or for a business or restaurant the book shows how to skillfully combine a Raspberry Pi with small auxiliary electronic circuits These are not installation instructions but food for thought that will enable readers to find a solution to their needs [Building a High-Tech Alarm System with Raspberry Pi](#)

William Pretty,2023-04-03 **The Internet of Things: Do-It-Yourself at Home Projects for Arduino, Raspberry Pi and BeagleBone Black** Donald Norris,2015-01-30 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 *Sensor Projects with Raspberry Pi* Guillermo Guillen,2024-08-10 Use Python to develop Raspberry Pi projects to solve common digital image processing and IoT problems Using a free IoT server you ll tackle fundamental topics and concepts behind these two areas This second edition includes new content on Artificial Intelligence and updated sensor guidance to help you better explore virtual animations create a homemade spectrometer and master object classification with Edge Impulse Start by creating a system to detect movement with a PIR motion sensor and a Raspberry Pi board Use the MQ2 gas sensor and a Raspberry Pi board as a gas leak alarm system to detect dangerous explosive and fire hazards Then train your system to send the captured data to the remote server ThingSpeak You ll also develop a weather station with your Raspberry Pi Using the DHT11 humidity and temperature sensor and BMP barometric pressure and temperature sensor in conjunction with ThingSpeak and X you can receive real time weather alerts from your own meteorological system Spectral sensors used with the Raspberry Pi include the AS7262 six colors and AS7263 near infrared for the construction of a filter spectrometer sensing colored solutions and assessing plant foliage health 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 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 gained from Sensor Projects with Raspberry Pi you ll be well equipped to explore other applications in mobile development and electrical engineering as well What You ll Learn Work with ThingSpeak to receive X alerts from your systems Cultivate skills in processing sensor inputs that are applicable to mobile and machine learning projects Incorporate sensors into projects to make interactive devices Experiment with virtual scenarios and objects Create Python and Pygame games that contain virtual scenarios and animations Detect colored solutions and assess the plant foliage health Who This Book Is For Hobbyists and makers working with robotics and IoT Electronic engineers and programmers who would like to expand their familiarity with basic sensor projects

Building Your Own Smart Home with Raspberry Pi Barrett Williams,ChatGPT,2025-06-03 Unleash the full potential of your living space with Building Your Own Smart Home with Raspberry Pi the ultimate guide to transforming your house into a futuristic smart home paradise This insightful eBook turns the dream of personalized automation into a reality providing step by step guidance even if you re starting from scratch Dive into the world of smart homes and learn how to use Raspberry Pi to create a connected efficient and automated household Begin your journey with a comprehensive introduction to smart home systems where you ll uncover the endless possibilities and benefits of customizing your own environment This guide offers everything you need to get started with Raspberry Pi technology from choosing the right model to installing the operating system Navigate the essentials of networking and connectivity to ensure seamless integration of all your devices Craft your personalized smart home plan by identifying your goals and designing your setup Discover the magic of smart lighting and home automation turning ordinary tasks into effortless routines with just the right touch of technology Explore home security enhancements through Raspberry Pi with practical advice on setting up cameras and sensors for peace of mind Delve into smart climate control to maintain comfort while optimizing energy use Elevate your entertainment experience with a smart media center and embrace the convenience of voice control technologies with Alexa or Google Assistant Empower your home with energy management strategies that reduce consumption and enhance sustainability For the adventurers advanced projects and integrations await unveiling transformative possibilities for a completely custom smart environment Packed with real world applications and case studies Building Your Own Smart Home with Raspberry Pi not only guides but inspires innovations providing a glimpse into the future of home technology Start your smart home transformation today and join the revolution with this indispensable guide

Raspberry Pi: Amazing Projects from Scratch Ashwin Pajankar,Arush Kakkar,Matthew Poole,Richard Grimmett,2016-09-26 Explore the powers of Raspberry Pi and build your very own projects right out of the box About This Book From robotics to gaming this Learning Path will unlock your creativity Build your own impressive IoT projects to transform your home Featuring some of Packt s very best Raspberry Pi content this Learning Path doesn t just get you to your destination it opens up a whole horizon of possibilities Who This Book Is For Want new ideas for your next Raspberry Pi project Got one lying around gathering dust This Learning Path gets you straight into the creative dirty work of

programming and playing with your pi Whether your new to Raspberry Pi or an experienced maker we think this Learning Path will inspire you and get your creative juices flowing What You Will Learn Discover an aweome range of Raspberry Pi projects Bridge the gap between software and hardware through your Pi and find out how to make an operating system interact with cameras and other hardware Find out how to use your Raspberry Pi for gaming Secure your home with this tiny computer Make science fiction a reality build a walking robot In Detail Looking for inspiration for your next Raspberry Pi project Not sure where to begin This Learning Path is the perfect place to begin providing you with an accessible yet comprehensive journey through Raspberry Pi Following three modules you ll soon be confident and prepared to get creative with your microcomputer Raspberry Pi by Example is the first module in this Learning Path and it does exactly what it says It doesn't just teach it shows you how to go and build some awesome Raspberry Pi projects immediately Build and play your own games with the Pi build a complete Internet of Things home automation system that controls your house through Twitter let your imagination run wild In the next module we ll look in more depth at building a home security system You ll be using some of the skills you devoped through the first module but apply them to something more intricate and impressive Using a Linux based operating system as the foundations you ll gradually build up an entire security infrastructure adding cameras remote controls and even intrusion alerts In the final module we ll take you into the world of Raspberry Pi robotics By the end of it you ll have built a biped robot that can interact with its environment This Learning Path combines some of the best that Packt has to offer in one complete curated package It includes content from the following Packt products Raspberry Pi By Example by Ashwin Pajankar and Arush Kakkar Building a Home Security System with Raspberry Pi by Matthew Pole Raspberry Pi Robotics Essentials by Richard Grimmitt Style and approach It s not every day you build a home automation system It s not every day you build a walking robot But with this Learning Path you ll do just that So get started and let this tiny computer expand your imagination [Raspberry Pi: Home Monitoring and Control](#) ,2016 Help your home keep up with you and stay connected to what s going on when you re away with a custom home monitoring system built with a Raspberry Pi With some inexpensive hardware and simple web services you can monitor your house remotely via photo or video surveillance detect motion turn lights on and off and send messages to your phone when different alarms are triggered This DIY electronics project provides simple directions for getting your home monitoring system up and running Author David Ross helps you select a power supply camera motion detector enclosure and other components and accessories and make your system smart by connecting to web services frameworks such as Weaved and WebIOPi Then he helps you program the logic to make your Pi camera take pictures and stream video connect to home peripherals and mount your alarm system With this training and a little elbow grease you can create a fully autonomous system that helps you and your family feel more secure at home and away Note These instructions work with Raspberry Pi B Raspberry Pi B and Raspberry Pi 2 models

Building Your Own Smart Home with Raspberry Pi Barrett Williams,ChatGPT,2024-08-23 Dive into the Future

Transform Your Living Space with Building Your Own Smart Home with Raspberry Pi Welcome to the ultimate guide that will revolutionize your home Building Your Own Smart Home with Raspberry Pi This eBook is your key to unlocking the potential of modern technology within the comfort of your own home Begin a thrilling journey into the world of smart homes where convenience efficiency and innovation converge What You ll Discover 1 The Essence of Smart Homes Start with a comprehensive introduction to smart homes understanding their transformative power and the advantages they bring to everyday living 2 Raspberry Pi Essentials Learn how to choose set up and configure your Raspberry Pi the heart of your smart home ecosystem 3 Networking Marvels Master the art of connecting your Raspberry Pi to your home network ensuring seamless communication between all your smart devices Homestead Innovation Unleash the potential of Home Assistant and explore various home automation protocols Understand the nuances of Wi Fi Zigbee and Z Wave to create a cohesive and powerful central hub Illuminating Ideas Transform your home lighting with smart bulbs and automated lighting systems making life brighter and simpler Secured Sanctuary Equip your home with smart security systems integrating IP cameras and smart locks to create robust security measures and peace of mind Comfort Redefined Automate climate control with smart thermostats and sensors achieving optimal comfort while saving on energy bills Voice Activated Wonderland Seamlessly integrate voice control with Google Assistant and Amazon Alexa turning voice commands into smart home actions Endless Entertainment Elevate your entertainment experience with smart TVs and multi room audio systems all while automating your entertainment schedules Smart Living Gain control over smart appliances and monitor energy usage optimizing the efficiency and convenience of your home operations Tailored Automation Create custom scenes and advanced automation scripts to make your smart home uniquely yours Never Be Stuck Troubleshoot common issues with ease ensuring your smart home runs smoothly Embark on an exciting journey to smart living Building Your Own Smart Home with Raspberry Pi is your comprehensive guide to creating a modern efficient and intelligent home Join the future of home living today

Whispering the Techniques of Language: An Psychological Journey through **Building A Home Security System With Raspberry Pi**

In a digitally-driven world wherever screens reign great and quick conversation drowns out the subtleties of language, the profound strategies and mental subtleties hidden within words usually go unheard. However, nestled within the pages of **Building A Home Security System With Raspberry Pi** a charming literary prize pulsing with organic emotions, lies an extraordinary journey waiting to be undertaken. Written by an experienced wordsmith, this charming opus encourages viewers on an introspective trip, delicately unraveling the veiled truths and profound affect resonating within the very fabric of each and every word. Within the mental depths of the touching review, we can embark upon a genuine exploration of the book is key subjects, dissect its captivating publishing style, and succumb to the effective resonance it evokes heavy within the recesses of readers hearts.

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Building A Home Security System With Raspberry Pi Introduction

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