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Intelligent Agriculture presents a real case study on the development of a state-of-the-art technology, the Wireless Sensor Network (WSN), which intends to address fundamental and very current challenges in the agriculture sector using benchmark analysis of the WSN against other similar technologies. Open-source electronics are becoming very popular, and are integrated with our daily educational and developmental activities. At present, the use open-source electronics for teaching science, technology, engineering, and mathematics (STEM) has become a global

trend. Off-the-shelf embedded electronics such as Arduino- and Raspberry-compatible modules have been widely used for various applications, from do-it-yourself (DIY) to industrial projects. In addition to the growth of open source software platforms, open-source electronics play an important role in narrowing the gap between prototyping and product development. Indeed, the technological and social impacts of open-source electronics in teaching, research, and innovation have been widely recognized.

Design, code, and build exciting wearable projects using Arduino tools

About This Book

Develop an interactive program using sensors and actuators suitable with wearables

Understand wearable programming with the help of hands-on projects

Explore different wearable design processes in the Arduino platform and customize them to fit your individual needs

Who This Book Is For

This book is intended for readers who are familiar with the Arduino platform and want to learn more about creating wearable projects. No previous experience in wearables is expected, although a basic knowledge of Arduino programming will help.

What You Will Learn

Develop a basic understanding of wearable computing

Learn about Arduino and its compatible prototyping platforms suitable for creating wearables

Understand the design process surrounding the creation of wearable objects

Gain insight into the materials suitable for developing wearable projects

Design and create projects including interactive bike gloves, GPRS locator watch, and more using various kinds of electronic components

Discover programming for interactivity

Learn how to connect and interface wearables' with Bluetooth and WiFi

Get your hands dirty with your own personalized designs

In Detail

The demand for smart wearable technologies is becoming more popular day by day. The Arduino platform was developed keeping wearables, such as watches that track your location or shoes that count the miles you've run, in mind. It is basically an open-source physical computing platform based on a simple microcontroller board and a development environment in which you create the software for the board. If you're interested in designing and creating your own wearables, this is an excellent platform for you. This book provides you with the skills and understanding to create your own wearable projects. The book covers different prototyping boards which are compatible with the Arduino platform and are suitable for creating wearable projects. Each chapter of the book covers a project in which knowledge and skills are introduced gradually, making the book suitable for all kinds of readers. You

begin your journey with understanding electronic components, including LEDs and sensors, to get yourself up to scratch and comfortable with different components. You will then gain hands-on experience by creating your very first wearable project, a pair of interactive bike gloves that help you cycle at night. This is followed by a project making your own funky LED glasses and a cool GPS watch. You'll also delve into other projects including creating your own keyless doorlock, wearable NFC tags, a fitness tracking device, and a WiFi-enabled spark board. The final project is a compilation of the previous concepts used where you make your own smart watch with fitness tracking, internet-based notifications, GPS, and of course time telling.

Style and approach This is a project-based book that introduces each project to the reader step-by-step. Each project starts out by covering all the components individually, and then explains how to combine them into interactive objects. Each project contains an easy-to-follow guide to design and implement the electronics into wearable objects. This is the second volume in the HCI International Conference Proceedings 2003. See following arrangement for details.

This book brings the recent collection of smart technologies. Smart cities challenges and key requirements are discussed through the technological solutions, IoT, cloud computing, block chain and artificial intelligence. Firstly, the key technologies contributing to the smart cities research are identified. Then, the most popular ones are covered in context to their theoretical and practical applications. Smart city technologies are one of the recent research areas. Every day new technological solutions are coming to make smart cities more sustainable. The book explores the integration of main key technologies for smart cities which are IoT & cloud computing, data science, AI and block chain & Industry 4.0. Moreover, some integrated solutions using AI, data science and IoT will attract the attention of end users. Primary market of the book aimed toward the undergraduate and master students. IoT, cloud computing, artificial intelligence and block chain are elective courses at the bachelor level in the engineering domain, and its application areas in context to smart cities are covered in this book. The book is a good source of reference for their master dissertations. Ph.D. students or scholars who are working on these key technologies like IoT & cloud, AI, data science, block chain & Industry 4.0 will find this book as a constant source of reference for their ongoing research. Smart city planners, architects and municipal experts may also find this book useful. Get the most

comprehensive PMP® Exam study package on the market! Prepare for the demanding PMP certification exam with this Deluxe Edition of our PMP: Project Management Professional Exam Study Guide, Fourth Edition. Featuring a bonus workbook with over 200 extra pages of exercises, this edition also includes six practice exams, over two hours of audio on CD to help you review, additional coverage for the CAPM® (Certified Associate in Project Management) exam, and much more. Full coverage of all exam objectives in a systematic approach, so you can be confident you're getting the instruction you need for the exam Bonus workbook section with over 200 pages of exercises to help you master essential charting and diagramming skills Practical hands-on exercises to reinforce critical skills Real-world scenarios that put what you've learned in the context of actual job roles Challenging review questions in each chapter to prepare you for exam day Exam Essentials, a key feature in each chapter that identifies critical areas you must become proficient in before taking the exam A handy tear card that maps every official exam objective to the corresponding chapter in the book, so you can track your exam prep objective by objective On the accompanying CD you'll find: Sybex test engine: Test your knowledge with advanced testing software. Includes all chapter review questions and bonus exams. Electronic flashcards: Reinforce your understanding with flashcards that can run on your PC, Pocket PC, or Palm handheld. Audio instruction: Fine-tune your project management skills with more than two hours of audio instruction from author Kim Heldman. Searchable and printable PDF of the entire book. Now you can study anywhere, any time, and approach the exam with confidence. Winner of a 2008 Golden Hammer Writing Award. Learn the art of box making from one of the foremost experts of the craft. Through Doug Stowe's decades of experience, you'll learn the basic techniques to get started, as well as more advanced ways to approach finely crafted boxes. Project after project, your skills will build, and you'll come to refine your work, asking how can processes could be simplified and how can finishes be improved. Throughout the book, Stowe offers this advice: Repeat yourself. Repetition leads to refinement, and refinement leads to success. Though it's not necessary to build the projects in this book in any particular order, they are arranged by the level of difficulty. As you grow in confidence working through the projects in this book, use your imagination and ask a few questions: What if this box were made in that wood? What if that joint were

used on this box? What if the lid had more overhang? What if I made it larger, or smaller? The question "What if?" will challenge and engage you as a box maker for years of adventure. Embedded Systems and Robotics with Open-Source Tools provides easy-to-understand and easy-to-implement guidance for rapid prototype development. Designed for readers unfamiliar with advanced computing technologies, this highly accessible book: Describes several cutting-edge open-source software and hardware technologies Examines a number of embedded computer systems and their practical applications Includes detailed projects for applying rapid prototyping development skills in real time Embedded Systems and Robotics with Open-Source Tools effectively demonstrates that, with the help of high-performance microprocessors, microcontrollers, and highly optimized algorithms, one can develop smarter embedded devices. An introduction to computer engineering for babies. Learn basic logic gates with hands on examples of buttons and an output LED. Twenty projects using the Raspberry Pi, a tiny and affordable computer, for beginners looking to make cool things right away. Projects are explained with full-color visuals and simple step-by-step instructions. 20 Easy Raspberry Pi Projects is a beginner-friendly collection of electronics projects, perfectly suited for kids, parents, educators, and hobbyists looking to level up their hardware skills. After a crash course to get you set up with your Raspberry Pi, you'll learn how to build interactive projects like a digital drum set; a WiFi controlled robot; a Pong game; an intruder alarm that sends email notifications; a gas leak detector; a weather forecaster; and IoT gadgets that control electronics around the house. Along the way, you'll work with core components like LCD screens, cameras, sensors, and even learn how to set up your own server. Each project provides step-by-step instructions, full-color photos and circuit diagrams, and the complete code to bring your build to life. If you're ready to hit the ground running and make something interesting, let 20 Easy Raspberry Pi Projects be your guide. DIVERSITY MUST BEGIN AT THE TOP. Underrepresented ethnic and racial groups make up 40 percent of the US population but just 12.5 percent of board directors. Sadly, this is not a statistic from a bygone era. This is 2021. Recently, various protests and movements have called attention to the lack of equality in the United States. And while much progress has been made, it's become clear that more can be done, both in our communities and in the workplace. With Time's Up, executive recruiter Patricia Lenkov shines a light on an issue that's plagued

corporations for years-the "pale, male, and stale boardroom." Supported with an abundance of research, she shows how women and minorities are consistently underrepresented on executive teams. Consumers and employees are demanding boards who can represent them, and organizations that fail to adapt could be left in the dust. But this isn't just recent push spurred on by the #MeToo movement. Diverse boards have actually been proven to make better decisions and lead to increased company performance. So what are you waiting for? Time's up. It is widely assumed that the relationship between governance capacity and decentralization determines the success in governance, but how does this relationship function is largely contested. Does decentralization lead to an improvement in governance capacities, or are certain capacities preconditioned in order for decentralization to lead better governance? Relying on an empirical study of Turkish provincial municipalities, the book argues success in decentralization is strongly influenced by the socioeconomic conditions in the province and to a lesser extent by the local government's capacity. The book provides a novel approach to capacity building practices and decentralization reforms by suggesting that the relationship between decentralization and governance capacity should be addressed not only on the organizational but also on the developmental level. In this way, the book proposes asymmetrical decentralization according to socio-economic development at subnational level for better governance outcomes. This book presents the know-how of the real-time IoT application development activity including a basic understanding of the IoT architecture, use cases, smart computing, and the associated challenges in design and development of the IoT system. All the technical details related to protocol stack, technologies, and platforms used for the implementation are explained. It further includes techniques and case studies that include smart computing on the IoT-Cloud models along with test beds for experimentation purposes. The book aims at setting up the groundwork for the creation of applications that can help make day-to-day tasks simpler by meeting the needs of varied sectors like education, health care, agriculture, and so forth. Features:

- Covers IoT cloud convergence with a focus on complex industrial IoT case studies.
- Discusses the broad background of IoT-Cloud convergence architectures and its fundamentals along with resource provisioning mechanisms.
- Emphasizes the use of context in developing context-aware IoT solutions.
- Presents a novel C-

model that explains the IoT application development phases. • Discusses a simplified convergence model that depicts the role of Cloud in an IoT application. This book aims at graduate students, researchers, and professionals getting started in the IoT field. Rather than yet another project-based workbook, *Arduino: A Technical Reference* is a reference and handbook that thoroughly describes the electrical and performance aspects of an Arduino board and its software. This book brings together in one place all the information you need to get something done with Arduino. It will save you from endless web searches and digging through translations of datasheets or notes in project-based texts to find the information that corresponds to your own particular setup and question. Reference features include pinout diagrams, a discussion of the AVR microcontrollers used with Arduino boards, a look under the hood at the firmware and run-time libraries that make the Arduino unique, and extensive coverage of the various shields and add-on sensors that can be used with an Arduino. One chapter is devoted to creating a new shield from scratch. The book wraps up with detailed descriptions of three different projects: a programmable signal generator, a "smart" thermostat, and a programmable launch sequencer for model rockets. Each project highlights one or more topics that can be applied to other applications. Leverage the power of Python to build DIY robotic projects

Key Features Design, build, and stimulate collaborative robots Build high-end robotics projects such as a customized personal Jarvis Leverage the power of Python and ROS for DIY robotic projects

Book Description Robotics is a fast-growing industry. Multiple surveys state that investment in the field has increased tenfold in the last 6 years, and is set to become a \$100-billion sector by 2020. Robots are prevalent throughout all industries, and they are all set to be a part of our domestic lives. This book starts with the installation and basic steps in configuring a robotic controller. You'll then move on to setting up your environment to use Python with the robotic controller. You'll dive deep into building simple robotic projects, such as a pet-feeding robot, and more complicated projects, such as machine learning enabled home automation system (Jarvis), vision processing based robots and a self-driven robotic vehicle using Python. By the end of this book, you'll know how to build smart robots using Python. What you will learn

Get to know the basics of robotics and its functions Walk through interface components with microcontrollers Integrate robotics with the IoT environment Build projects using machine learning Implement path planning

and vision processing Interface your robots with Bluetooth Who this book for If building robots is your dream, then this book is made for you. Prior knowledge of Python would be an added advantage. The 3-volume set CCIS 1252 until CCIS 1254 constitutes the refereed proceedings of the 6th International Conference on Artificial Intelligence and Security, ICAIS 2020, which was held in Hohhot, China, in July 2020. The conference was formerly called "International Conference on Cloud Computing and Security" with the acronym ICCCS. The total of 178 full papers and 8 short papers presented in this 3-volume proceedings was carefully reviewed and selected from 1064 submissions. The papers were organized in topical sections as follows: Part I: artificial intelligence; Part II: artificial intelligence Internet of things; information security; Part III: information security; big data and cloud computing; information processing. "This book is a clearly illustrated, practical guide to building fabulously functional household projects from a single plank of wood"-- The author presents his spin on the wooden box with a collection of stylish boxes to make with your trusty bandsaw. The workbook for "Triumphs of a Little Girl" unveils a powerful, creative and challenging tool to help you jump start your plans for a successful life. It's an introduction to a new approach to the way in which we make decisions that will bring our life plans into fruition. Every day we ask questions beginning with WHO, WHAT, WHERE, WHEN, WHY, WAS/WERE and HOW - never to solve a single problem, but in multiple situations. Here you will learn how to effectively apply each word as you solve problems using a special but effective formula Here is what you will discover: A new and innovative twist to Brainstorming, Mind Mapping, and the Vision Board as you know them. How to acquire skills to find your passion amidst a wealth of career choices. How to develop a more effective Problem Solving Technique. How to apply Inspirational Quotes to keep you motivated. The importance of Gratitude and Appreciation. How to apply the Benjamin Model for Success in different situations. How to use Creative Visualization and Prayer to keep you grounded. How to schedule and plan activities effectively to achieve success. How to use The Benjamin Project Board for success. It is my hope that this workbook will be used as a guide to inspire youths to make decisions that will enable them to succeed in all areas of their life. Paddington Bear has a busy day ahead filled with lots of tasty treats to eat. An essential guide for board members and executives who need to understand the impact of digital on their thinking and decision

making *Duty of Care: An Executive's Guide for Corporate Boards in the Digital Era* offers a much needed guide for board directors and leaders who need to get up-to-speed and close their digital knowledge gap in order to make the right decisions about digital technology investment and deployments. Written in easy-to-read language, this book targets directors and executives who want to protect themselves from risks ranging from massive cyber security breaches to digital infrastructure investment mistakes. Most board members don't have the information they need to understand digital information systems, modern high-speed networks, and rapidly evolving software and hardware ecosystems. They also don't have the time to seek out or filter what they need from the many diverse sources. Their lack of knowledge can lead to disastrous decisions that can cost shareholders billions of dollars in lost income or risk liability. Written by a globally recognized experienced business executive and expert in cyber security, this essential guide and blueprint can serve the strategic and governance needs of every company. Written by a noted expert in cyber security and digital strategy. Designed to be accessible for board members unfamiliar with digital technology, with case studies and smart questions to support leaders on every topic. Helps board directors, corporate officers, and corporate investors with the digital knowledge needed to make informed decisions. *Duty of Care* is a comprehensive yet accessible book that helps board members close their "digital knowledge gap" in order to better serve their corporations.

Develop smart Internet of things projects using Android Things. About This Book Learn to build promising IoT projects with Android Things Make the most out of hardware peripherals using standard Android APIs Build enticing projects on IoT, home automation, and robotics by leveraging Raspberry Pi 3 and Intel Edison Who This Book Is For This book is for Android enthusiasts, hobbyists, IoT experts, and Android developers who want to gain a deeper knowledge of Android Things. The main focus is on implementing IoT projects using Android Things. What You Will Learn Understand IoT ecosystem and the Android Things role See the Android Things framework: installation, environment, SDK, and APIs See how to effectively use sensors (GPIO and I2C Bus) Integrate Android Things with IoT cloud platforms Create practical IoT projects using Android Things Integrate Android Things with other systems using standard IoT protocols Use Android Things in IoT projects In Detail Android Things makes developing connected embedded devices

easy by providing the same Android development tools, best-in-class Android framework, and Google APIs that make developers successful on mobile. With this book, you will be able to take advantage of the new Android framework APIs to securely build projects using low-level components such as sensors, resistors, capacitors, and display controllers. This book will teach you all you need to know about working with Android Things through practical projects based on home automation, robotics, IoT, and so on. We'll teach you to make the most of the Android Things and build enticing projects such as a smart greenhouse that controls the climate and environment automatically. You'll also create an alarm system, integrate Android Things with IoT cloud platforms, and more. By the end of this book, you will know everything about Android Things, and you'll have built some very cool projects using the latest technology that is driving the adoption of IoT. You will also have primed your mindset so that you can use your knowledge for profitable, practical projects.

Style and approach This book is packed with fun-filled, end-to-end projects that you will be encouraged to experiment on the Android Things OS. "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. The easy-to-use guide to SMART Board® interactive whiteboards SMART Board interactive whiteboards—which combine the functionality of a computer with the simplicity of a whiteboard—are rapidly becoming fixtures in classrooms, boardrooms, and lecture halls everywhere. While these high tech devices are transforming the ways we teach and learn, getting the most out of them can be down right intimidating. SMART Board® Interactive Whiteboard For Dummies is here to help, explaining everything users need to know to make the most of their technology. Covering topics including how to calibrate a SMART Board interactive whiteboard using a computer, navigating software options, creating interactive presentations and lesson plans, incorporating sound and animation, managing content, and using digital ink with the touch of a finger, the book is designed to get your interactive whiteboard up and running in no time. Introduces and explains SMART Board interactive whiteboards, computer-based white boards that are becoming widespread in classrooms and boardrooms around the world Covers essential topics

ranging from setting up a SMART Board interactive whiteboards to managing content Provides the tools SMART Board interactive whiteboard users need to make the most of these new devices The go-to guide for anyone working with SMART Board interactive whiteboards, SMART® Board Interactive Whiteboard For Dummies is designed to make using the chalkboards of the twenty-first century a cinch. The first-ever accessible guide on making DIY furniture from live-edge slabs, this book will show you everything you need to know about incorporating organic, natural wood pieces into your home. After learning techniques for milling, drying, and preparing your own slab, adding inlays, using resin and epoxy, creating waterfall edges, and more, you'll then move on to complete seven projects that range in size and offer additional ideas and inspiration to implement in your own projects while using the techniques you've learned! From charcuterie boards and floating shelves to desks, dining tables, benches, and more, both beginner and advanced DIYers can accomplish these stunning woodworking projects! Author George Vondriska is the owner of Vondriska Woodworks, one of the premier woodworking schools in the Midwest. The managing editor of Woodworkers Guild of America and a contributor to Fine Woodworking, WOOD, and Woodworker's Journal, George has also taught woodworking classes for the U.S. Peace Corps, the Pentagon, Northwest Airlines, and Anderson Window. Learn from a true woodworking pro as you transform trees into stunning furniture your family and friends will love! A New York Times bestselling author and veteran board member offers an insider's view of corporate boards, their struggles and why they must adapt to survive. Corporate boards are under great pressure. Scandals and malpractice at companies like Theranos, WeWork, Uber, and Wells Fargo have raised justified questions among regulators, shareholders, and the public about the quality of corporate governance. In How Boards Work, prizewinning economist and veteran board director Dambisa Moyo offers an insider's view of corporate boards as they are buffeted by the turbulence of our times. Moyo argues that corporations need boards that are more transparent, more knowledgeable, more diverse, and more deeply involved in setting the strategic course of the companies they lead. How Boards Work offers a road map for how boards can steer companies through tomorrow's challenges and ensure they thrive to benefit their employees, shareholders, and society at large. A vivid look at China's shifting place in the global political economy of technology production How

did China's mass manufacturing and "copycat" production become transformed, in the global tech imagination, from something holding the nation back to one of its key assets? *Prototype Nation* offers a rich transnational analysis of how the promise of democratized innovation and entrepreneurial life has shaped China's governance and global image. With historical precision and ethnographic detail, Silvia Lindtner reveals how a growing distrust in Western models of progress and development, including Silicon Valley and the tech industry after the financial crisis of 2007–8, shaped the rise of the global maker movement and the vision of China as a "new frontier" of innovation. Lindtner's investigations draw on more than a decade of research in experimental work spaces—makerspaces, coworking spaces, innovation hubs, hackathons, and startup weekends—in China, the United States, Africa, Europe, Taiwan, and Singapore, as well as in key sites of technology investment and industrial production—tech incubators, corporate offices, and factories. She examines how the ideals of the maker movement, to intervene in social and economic structures, served the technopolitical project of prototyping a "new" optimistic, assertive, and global China. In doing so, Lindtner demonstrates that entrepreneurial living influences governance, education, policy, investment, and urban redesign in ways that normalize the persistence of sexism, racism, colonialism, and labor exploitation. *Prototype Nation* shows that by attending to the bodies and sites that nurture entrepreneurial life, technology can be extricated from the seemingly endless cycle of promise and violence.

Cover image: Courtesy of Cao Fei, Vitamin Creative Space and Sprüth Magers

Discover how to build your own smart Internet of Things projects and bring a new degree of interconnectivity to your world

About This Book 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

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.

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 In Detail Internet 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 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. Style and approach The book follows a project-based approach to building smart IoT projects using powerful boards such as the Raspberry Pi, Arduino, and the IoT chip. Innovations Through Information Technology aims to provide a collection of unique perspectives on the issues surrounding the management of information technology in organizations around the world and the ways in which these issues are addressed. This valuable book is a compilation of features including the latest research in the area of IT utilization and management, in addition to being a valuable source in support of teaching and research agendas. Whether you're new to the craft of woodworking and looking for a great first project or you're a seasoned craftsman showcasing a piece of treasured wood, it's hard to deny the appeal of a cutting board. The techniques can be as simple or as complex as you like and the finished designs can be tailored to suit any style or taste. For beginners, these gateway projects are a great way to try out a new hobby easily, quickly, and with limited tools. For old hands, making cutting boards is a gorgeous way to showcase a beautiful piece of lumber or to hone and highlight a complex technique you're trying to perfect. Best of all, upon completion, a cutting board is a project that can be proudly used as a sturdy workhorse in your own kitchen or given as a holiday treasure to friend or loved one. Extensive

photography and clear, concise instruction make even the most complex techniques easy to understand and conquer. A gallery of inspiring designs sourced from a wide array of makers is also included to spark the creation of your cutting board styles. 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 Description ESP32 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. Economic, technological, and political shifts as well as changing business strategies have driven firms to unbundle production processes and disperse them across countries. Thanks to these changes, developing countries can now increase their participation in global value chains (GVCs) and thus become more competitive in agriculture, manufacturing and services. This is a paradigm shift from the 20th century when countries ha

to build the entire supply chain domestically to become competitive internationally. For policymakers, the focus is on boosting domestic value added and improving access to resources and technology while advancing development goals. However, participating in global value chains does not automatically improve living standards and social conditions in a country. This requires not only improving the quality and quantity of production factors and redressing market failures, but also engineering equitable distributions of opportunities and outcomes - including employment, wages, work conditions, economic rights, gender equality, economic security, and protecting the environment. The internationalization of production processes helps with very few of these development challenges. Following this perspective, *Making Global Value Chains Work for Development* offers a strategic framework, analytical tools, and policy options to address this challenge. The book conceptualizes GVCs and makes it easier for policymakers and practitioners to discuss them and their implications for development. It shows why GVCs require fresh thinking; it serves as a repository of analytical tools; and it proposes a strategic framework to guide policymakers in identifying the key objectives of GVC participation and in selecting suitable economic strategies to achieve them. Discover how to build your own Intelligent Internet of Things projects and bring a new degree of interconnectivity to your world. About This Book Build intelligent and unusual IoT projects in just 7 days, Create home automation, smart home, and robotic projects and allow your devices to do smart work Build IoT skills through enticing projects and leverage revolutionary computing hardware through the RPi and Arduino. Who This Book Is For If you're a developer, IoT enthusiast, or just someone curious about Internet of Things, then this book is for you. A basic understanding of electronic hardware, networking, and basic programming skills would do wonders. What You Will Learn Learn how to get started with intelligent IoT projects Explore various pattern recognition and machine learning algorithms to make IoT projects smarter. Make decisions on which devices to use based on the kind of project to build. Create a simple machine learning application and implement decision system concepts Build a smart parking system using Arduino and Raspberry Pi Learn how to work with Amazon Echo and to build your own smart speaker machine Build multi-robot cooperation using swarm intelligence. In Detail Intelligent IoT Projects in 7 days is about creating smart IoT projects in just 7 days. This book will help you to overcome the

challenge of analyzing data from physical devices. This book aims to help you put together some of the most exciting IoT projects in a short span of time. You'll be able to use these in achieving or automating everyday tasks—one project per day. We will start with a simple smart gardening system and move on to a smart parking system, and then we will make our own vending machine, a smart digital advertising dashboard, a smart speaker machine, an autonomous fire fighter robot, and finally look at a multi-robot cooperation using swarm intelligence

Style and approach A clear step-by-step instruction guide to completing fully-fledged projects in just 7 days "This book provides readers with valuable and authentic research on how technology relates to early childhood growth"--Provided by publisher.

There's nothing more satisfying to a woodworker than using handmade kitchen tools in their busy kitchen... For a woodworker there's nothing more satisfying than a project that can be quickly made in a weekend that will get years of daily use. And, out of all the rooms in the house, it's the kitchen that has the most potential for custom made accessories and utensils that will deliver a hard day's work. From the Make Something workshop of David Picciuto, *Make Your Own Kitchen Tools* offers up a collection of projects that will give your kitchen a handmade feel while also being part of your daily prep and serving of the day's meals and snacks. Whether you have a shop full of tools or just a couple of handsaws and a knife, *Make Your Own Kitchen Tools* has a project for you, each designed with simplicity and style in mind. The tools and techniques required, likewise, are simple and straight-forward: all you need are basic tools and there's no complex joinery to slow you down. To guarantee success, each step is beautifully photographed and written in David Picciuto's trademark straightforward and easy-to-follow style. Whether you follow along each project step-by-step or get inspired to add your own creative spin, *Make Your Own Kitchen Tools* will have you putting your woodworking to use every day - or proudly giving that friend or loved one a gift they'll really cherish.

A trail of mismanaged or terminated projects in recent years has cost the North American economy \$100 to \$150 billion dollars annually in lost productivity and shareholders capital. Unfortunately, the gap between project selection and project execution is often symptomatic of the onset of Project Fog, an all too familiar business situation in which projects are started and stopped constantly; resources short of the project workload to be executed; and, in the end, the entire

effort is seen as a failure. A guide to sidestepping the usual hazards that often spell Project Fog, this book bridges the gap between executives who develop strategy and decide what projects get approved, and the project managers who have to execute those projects flawlessly. It provides a roadmap so that project managers can partner with executives to align the portfolio of projects with overall business strategy, ensuring that things get done right. Entrepreneur and bestselling author of *The Lean Startup*, Eric Ries reveals how entrepreneurial principles can be used by businesses of all kinds, ranging from established companies to early-stage startups, to grow revenues, drive innovation, and transform themselves into truly modern organizations, poised to take advantage of the enormous opportunities of the twenty-first century. In *The Lean Startup*, Eric Ries laid out the practices of successful startups – building a minimal viable product, customer-focused and scientific testing based on a build-measure-learn method of continuous innovation, and deciding whether to persevere or pivot. In *The Startup Way*, he turns his attention to an entirely new group of organizations: established enterprises like iconic multinationals GE and Toyota, tech titans like Amazon and Facebook, and the next generation of Silicon Valley upstarts like Airbnb and Twilio. Drawing on his experiences over the past five years working with these organizations, as well as nonprofits, NGOs, and governments, Ries lays out a system of entrepreneurial management that leads organizations of all sizes and from every industry to sustainable growth and long-term impact. Filled with in-the-field stories, insights, and tools, *The Startup Way* is an essential road map for any organization navigating the uncertain waters of the century ahead.

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