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node to your new Raspberry Pi database server If you want to see how well Arduino and Raspberry Pi can get along especially to create a sensor network then Beginning Sensor Networks with Arduino and Raspberry Pi is just the book you need   Windows 10 for the Internet of Things Charles Bell,2016-10-27 Manage and control Internet connected devices from Windows and Raspberry Pi Master the Windows IoT Core application programming interface and feature set to develop Internet of Things applications on the Raspberry Pi using your Windows and NET programming skills Windows 10 for the Internet of Things presents a set of example projects covering a wide range of techniques designed specifically to jump start your own Internet of Things creativity You ll learn everything you need to know about Windows IoT Core in order to develop Windows and IoT applications that run on the Pi Microsoft s release of Windows IoT Core is groundbreaking in how it makes the Raspberry Pi and Internet of Things programming accessible to Windows developers Now it s possible to develop for the Raspberry Pi using native Windows and all the related programming skills that Windows programmers have learned from developing desktop and mobile applications Windows 10 becomes a gateway by which many can experience hardware and Internet of Things development who may never have had the opportunity otherwise However even savvy Windows programmers require help to get started with hardware development This book Windows 10 for the Internet of Things provides just the help you need to get started in putting your Windows skills to use in a burgeoning new world of development for small devices that are ubiquitously connected to the Internet What You Will Learn Learn Windows 10 on the Raspberry Pi Read sensor data and control actuators Connect to and transmit data into the cloud Remotely control your devices from any web browser Develop IOT applications under Windows using C and Python Store your IOT data in a database for later analysis Who This Book Is For Developers and enthusiasts wanting to take their skills in Windows development and jump on board one of the largest and fastest growing trends to hit the technology world in years that of connecting everyday devices to the Internet This book shows how to develop for Microsoft s operating system for devices Windows 10 IoT Core Readers learn to develop in C and Python using Visual Studio for deployment on devices such as the Raspberry Pi and the Ardunio   **Web, Artificial Intelligence and Network Applications** Leonard Barolli,Flora Amato,Francesco Moscato,Tomoya Enokido,Makoto Takizawa,2020-03-30 This proceedings book presents the latest research findings and theoretical and practical perspectives on innovative methods and development techniques related to the emerging areas of Web computing intelligent systems and Internet computing The Web has become an important source of information and techniques and methodologies that extract quality information are of paramount importance for many Web and Internet applications Data mining and knowledge discovery play a key role in many of today s major Web applications such as e commerce and computer security Moreover Web services provide a new platform for enabling service oriented systems The emergence of large scale distributed computing paradigms such as cloud computing and mobile computing systems has opened many opportunities for collaboration services which are at the core of any information system Artificial

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unique resource for understanding practical uses of the NB IoT technology and serves as a handbook for technical and non technical readers who are looking for practicing and exercising the cellular NB IoT technology The book can be used by engineers students researchers system integrators mobile operators technical staff and electronics enthusiasts To download the software which can be used with the book go to https github com 5ghub NB IoT About the Author Hossam Fattah is a technology expert in 4G 5G wireless systems and networking He received his Ph D in Electrical and Computer Engineering from University of British Columbia Vancouver Canada in 2003 He received his Master of Applied Science in Electrical and Computer Engineering from University of Victoria Victoria Canada in 2000 He completed his B Sc degree in Computers and Systems Engineering from Al Azhar University Cairo Egypt in 1995 Between 2003 and 2011 he was in academia and industry including Texas A M University Between 2011 and 2013 he was with Spirent Communications NJ USA Since 2013 he has been with Microsoft USA He is also an affiliate associate professor at University of Washington Tacoma WA USA teaching graduate courses on IoT and distributed systems and collaborating on 5G research and innovations He has had many patents and technical publications in conferences and journals He is a registered professional Engineer with the Association of Professional Engineers British Columbia Canada He is the author of the recent book 5G LTE Narrowband Internet of Things NB IoT His research interest is in wireless communications and radio networks and protocols cellular quality of service radio resource management traffic and packet scheduling network analytics and mobility   Programming Arduino Next Steps: Going Further with Sketches Simon Monk,2014 Programming Arduino Under the hood Interrupts and timers Making Arduino faster Low power Arduino Memory Using 12C Interfacing with SPI devices Serial UART programming USB programming Network programming Digital signal processing Managing with one process Writing libraries   **Programming Arduino: Getting Started with Sketches** Simon Monk,2016-06-29 A fully updated guide to quickly and easily programming Arduino Thoroughly revised for the new Arduino Uno R3 this bestselling guide explains how to write well crafted sketches using Arduino s modified C language You will learn how to configure hardware and software develop your own sketches work with built in and custom Arduino libraries and explore the Internet of Things all with no prior programming experience required Electronics guru Simon Monk gets you up to speed quickly teaching all concepts and syntax through simple language and clear instruction designed for absolute beginners Programming Arduino Getting Started with Sketches Second Edition features dozens of easy to follow examples and high quality illustrations All of the sample sketches featured in the book can be used as is or modified to suit your needs An all new chapter teaches programming Arduino for Internet of Things projects Screenshots diagrams and source code illustrate each technique All sample programs in the book are available for download   *Arduino Uno: A Hands-On Guide for Beginner* Agus Kurniawan, Arduino board is a popular board for embedded development This book helps you to get started with Arduino Uno development Several scenario samples are provided to accelerate your learning process The following is highlight topics Preparing Development Environment Setting Up Arduino

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