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Arduino Networking

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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 Arduino

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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LTE Cellular Narrowband Internet of Things (NB-IoT) Hossam Fattah, 2021-04-28 NB IoT is the Internet of Things IoT technology used for cellular communication NB IoT devices deliver much better capability and performance such as increased area coverage of up to one kilometer a massive number of devices up to 200 000 per a single base station area longer battery lifetime of ten years and better indoor and outdoor coverage for areas with weak signal such as underground garages The cellular NB IoT technology is a challenging technology to use and understand With more than 30 projects presented in this book covering many use cases and scenarios this book provides hands on and practical experience of how to use the cellular NB IoT for smart applications using Arduino™ Amazon Cloud Google Maps and charts The book starts by explaining AT commands used to configure the NB IoT modem data serialization and deserialization how to set up the cloud for connecting NB IoT devices setting up rules policy security certificates and a NoSQL database on the cloud how to store and read data in the cloud how to use Google Maps to visualize NB IoT device geo location and how to use charts to visualize sensor datasets Projects for Arduino are presented in four parts The first part explains how to connect the device to the mobile operator and cellular network perform communication using different network protocols such as TCP HTTP SSL or MQTT how to use GPS for geo location applications and how to upgrade NB IoT modem firmware over the air The second part explains the microcontroller unit and how to build and run projects such as a 7 segment display or a real time clock The third part explains how NB IoT can be used with sensor devices such as ultrasonic and environmental sensors Finally the fourth part explains how NB IoT can be used to control actuators such as stepper motors and relays This book is a 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

Handbook of Research on Advanced Wireless Sensor Network Applications, Protocols, and Architectures Ray, Niranjana K., Turuk, Ashok Kumar, 2016-08-01 The implementation of wireless sensor networks has wide ranging applications for monitoring various physical and environmental settings However certain limitations with these technologies must be addressed in order to effectively utilize them The Handbook of Research on Advanced Wireless Sensor Network Applications Protocols and Architectures is a pivotal reference source for the latest research on recent innovations and developments in the field of wireless sensors Examining the advantages and challenges presented by the application of these networks in various areas this book is ideally designed for academics researchers students and IT developers

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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 Uno Writing and Reading Digital Data Serial Communication UART PWM and Analog Input Working with I2C Working with SPI Accessing EEPROM

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Making Things Talk Tom Igoe, 2017-08-14 The workbenches of hobbyists hackers and makers have become overrun with microcontrollers computers on a chip that power homebrewed video games robots toys and more In Making Things Talk Tom Igoe one of the creators of Arduino shows how to make these gadgets talk Whether you need to connect some sensors to the Internet or create a device that can interact wirelessly with other creations this book shows you what you need Although they are powerful the projects in this book are inexpensive to build the Arduino microcontroller board itself ranges from around 25 to 40 The networking hardware covered here includes Ethernet Wi Fi Bluetooth and can be had for 25 to 50 Fully updated for the latest Arduino hardware and software this book lets you combine microcontrollers sensors and networking hardware to make things and make them talk to each other

The implementation of an infrared transmitter and receiver function in the Souliss framework Patrick Marchhart, 2019-04-04 Bachelor Thesis from the year 2016 in the subject Electrotechnology grade 1 0 University of Applied Sciences Technikum Vienna Elektronik language English abstract Meine Bachelorarbeit behandelt die Implementierung eines Infrarot Senders und Empf ngers in die freie Arduino Bibliothek Souliss Mit Hilfe der Souliss Bibliothek ist es m glich ein Netzwerk aus Sensoren und Aktoren f r eine Heimautomatisierung

aufzubauen Souliss bietet die Möglichkeit die Sensoren und Aktoren mittels Ethernet WLAN und einer 2.4GHz Funkverbindung zu vernetzen In dieser Arbeit wird die fehlende Option Ger te der Unterhaltungselektronik ber Infrarot zu steuern in die Souliss Bibliothek integriert Diese Integration wurde mit Hilfe einer Funktion umgesetzt die die Steuerbefehle einer Infrarotfernbedienung in Souliss Steuerbefehle umwandeln kann Des Weiteren k nnen auch Souliss Steuerbefehle in Infrarotsteuersignale konvertiert werden Diese Umsetzung wurde mit Hilfe eines eigens entwickeltem Prototypen dem Souliss IR Cube getestet Bei diesem Prototyp wurde ein ESP8266 Mikrokontroller eingesetzt welcher eine WLAN Funktionalit t besitzt Der elektronischen Komponenten wurden auf einer Lochrasterplatine aufgebaut Diese Platine ist in einem w rfelf rmigen Geh use untergebracht An den vier Seitenfl chen des Geh uses ist jeweils eine Infrarot LED und an der Oberseite des Geh uses ist ein Infrarot Empf nger platziert Dieses Geh use wurde mit Hilfe eines 3D Druckers realisiert

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connecting to the Web and forming networks of smart devices

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