

The Risc V Esp32 Wifi Bluetooth Arduino Hackaday

Wifi (ESP32) Wifi (ESP32) Convergence of Artificial Intelligence, Machine Learning, and the Internet of Things in Industry 4.0 Applications Wifi (ESP32) Opportunistic Networks Make: Volume 83 ESP32 10 Proceedings of the Third International Conference on Information Management and Machine Intelligence Underground Mining: Production, Productivity and Safety Green Internet of Things Sensor Networks ESP32 MQTT The Book of I2C Agricultural-Centric Computation Internet of Everything Intelligent Technologies for Sensors MicroPython (ESP32) Security-Related Advanced Technologies in Critical Infrastructure Protection Plant Intelligent Automation and Digital Transformation Volume II Advances in Robotics, Automation and Data Analytics New Technologies, Development and Application VI Amrita Rai Anna Förster Dale Dougherty Dinesh Goyal D. C. Panigrahi Adamu Murtala Zungeru Randall Hyde Mukesh Kumar Saini Teresa Pereira S. Kannadhasan Tünde Anna Kovács Swapan Basu Jessnor Arif Mat Jizat Isak Karabegovic

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this textbook provides an exhaustive exploration of opportunistic networks oppnets divided into three parts it starts with the foundational principles and metrics of oppnets detailing their mobility and data dissemination significant focus is given to the security challenges faced by oppnets including strategies to counter various attacks the second part evaluates oppnets introducing methods and metrics for assessment theoretical and simulation models and tools such as omnet the one and ns 3 this textbook also offers comparative analyses and discussions on benchmarking the third part delves into the implementation of oppnets discussing technologies from mobile ad hoc networks to satellite communication and their integration with cellular technologies like 4g 5g and 6g detailed insight into device characterization reveals the potential and limitations of devices within oppnets practical applications of oppnets in scenarios such as disaster management remotecommunication iot challenges smart cities and satellite networks are presented as well through detailed discussions and case studies readers gain a comprehensive understanding of the structure operation and practical implications of oppnets it equips readers with knowledge to appreciate the vast potential of oppnets in various applications and settings this textbook targets advanced level students and postdocs in computer science and electrical engineering as well as researchers who are starting new in the area and need a comprehensive view of opportunistic networks practitioners who are interested in applying the concepts of opportunistic networks in their products and services and would like to have a jump start into the development and applications of opportunistic networks will also want to purchase this book as a reference

it s been another tumultuous year in the world of embedded electronics supply chain snags have scarcely relented while new chips jostle for position as the go to for makers in this issue of make we look at how scarcity is affecting the industry and impacting new and stalwart boards alike we explore how risc v chip architecture is putting open silicon in the hands of makers and if your favorite board is out of stock we offer smart substitutes also included is our annual make guide to boards comparing 79 of the hottest microcontrollers single board computers and fpgas â with an emphasis on those you can actually get your hands on plus 25 projects to make including use full color led strings and a pixelblaze controller to make cuddly animated pillows stitch a stylish and sturdy roll up tool carrier for on the go fixes and builds convert your 3d printer to 5 axis and print the impossible take control of smart home gadgets with z wave and raspberry pi make a fun paper airplane that blows bubbles as it soars and much more

esp esp 32 esp32 gpio line db agent mqtt broker python data visualized agent esp 32 maker arduino yun arduino wifi shield maker esp 32

this book features selected papers presented at third international conference on international conference on information management and machine intelligence icimmi 2021 held at poornima institute of engineering technology jaipur rajasthan india during 23 24 december 2021 it covers a range of topics including data analytics ai machine and deep learning information management security processing techniques and interpretation applications of artificial intelligence in soft computing and pattern recognition cloud based applications for machine learning application of iot in power distribution systems as well as wireless sensor networks and adaptive wireless communication

this book comprises 15 peer reviewed chapters contributed by distinguished experts offering in depth insights into innovative practices and research developments in the mining industry the publication is part of an ongoing initiative by pmrc private limited to promote the dissemination of novel ideas and practical solutions aimed at enhancing efficiency safety and sustainability in mining operations the volume has been conceptualized and compiled by prof d c panigrahi dr a k singh and abhinav saini three researchers actively engaged with pmrc in addressing real world challenges in the mining sector their professional profiles and contributions are featured in the introductory section of the book setting the tone for the reader to appreciate the depth of expertise behind the work beyond the technical contributions the book also highlights the vision

mission and activities of pmrc private limited helping readers from academia industry government agencies such as the directorate general of mines safety and policy making bodies understand the broader context of collaborative innovation this volume serves as a bridge between research and implementation encouraging knowledge sharing and cooperative efforts to foster technological advancements and sustainable practices in mining and its allied fields it is a valuable resource for professionals researchers and institutions committed to modernizing and transforming the mining industry

this book presents methods for advancing green iot sensor networks and iot devices three main methods presented are a standalone system to support iot devices that is informed by the amount of energy the solar array system can produce a model of securing a building s main power supply against unauthorized use and security of the iot devices and their networks for each the authors outline the methods presents security and privacy issues and their solutions the work suggests a layered approach to expose security issues and challenges at each layer of the iot architecture and proposes techniques used to mitigate these challenges finally perspectives are drawn and discussed for future directions in securing iot sensor networks covering evolving areas such as artificial intelligence blockchain technology sensor internet of people context aware sensing cloud infrastructure security and privacy and the internet of everything

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an extensive practical guide to connecting real world devices to microcontrollers with the popular i2c bus if you work with embedded systems you re bound to encounter the ubiquitous inter integrated circuit bus iic or i2c a serial protocol for connecting integrated circuits in a computer system in the book of i2c the first comprehensive guide to this bus bestselling author randall hyde draws on 40 years of industry experience to get you started designing and programming i2c systems aided by over 100 detailed figures and annotated source code listings you ll learn the i2c implementations of systems like arduino teensy and raspberry pi as well as variants of the i2c and common i2c peripheral ics complete with programming examples for hardware hackers electronics hobbyists and software engineers of every skill level the extensive coverage in this book will make it a go to reference when it comes to connecting real world devices to i2c microcontrollers

this book constitutes the proceedings of the second international conference on agricultural centric computation ica 2024 held in delhi india during may 21 24 2024 the 20 full papers and 6 short papers included in this book were carefully reviewed and selected from 79 submissions this year s conference focuses on how advanced computational techniques can address critical issues in the agricultural sector such as climate resilience food security sustainable practices biodiversity conservation soil health water management and market access

this book constitutes the refereed post conference proceedings of the eai international conference on internet of everything ioecon 2022 which took place in guimarães portugal in september 16 17 2022 ioecon 2022 presents ioe paradigms to their whole dimension intelligently connecting devices people processes data and things ioe is multi disciplinary and offers an opportunity to explore the co relations between different areas techniques and theories about a new cyber world the 10 revised full papers were carefully reviewed and selected from 26 submissions the papers focus on a complete ecosystem that digitally interconnects everything including people to people people to machines and machines to machines

sensor devices that are flexible and printable have received a lot of interest in recent years new techniques such as printing and additive manufacturing are being developed to realize a wide range of readily deployable systems such as displays sensors and rfid tags this informative book provides an overview of the smart real time application of sensors in a variety of intelligent

lightweight researchers want to serve the industrial requests and innovate new composite materials or increase the properties of the material through a new technological process the authors publish the latest results of the security related research area including the newest innovations and technologies which rise the interest of the defence and the modern industries even the interest of other researchers

plant intelligent automation and digital transformation volume ii control and monitoring hardware and software is an expansive four volume collection that reviews every major aspect of the intelligent automation and digital transformation of power process and manufacturing plants including specific control and automation systems pertinent to various power process plants using manufacturing and factory automation systems the book reviews the key role of management information systems mis hmi and alarm systems in plant automation in systemic digitalization covering hardware and software implementations for embedded microcontrollers fpga and operator and engineering stations chapters address plant lifecycle considerations inclusive of plant hazards and risk analysis finally the book discusses industry 4 0 factory automation as a component of digitalization strategies as well as digital transformation of power plants process plants and manufacturing industries reviews supervisory control and data acquisitions scada systems for real time plant data analysis provides practitioner perspectives on operational implementation including human machine interface operator workstation and engineering workstations covers alarm and alarm management systems including lifecycle considerations fully covers risk analysis and assessment including safety lifecycle and relevant safety instrumentation

this book presents essentially a collection of proceedings that deliberate on the key challenges and recent trends on robotics automation and data analytics which are the pillars of industry 4 0 solutions that are employed in the multitude spectra of innovative robotics automation and data analytics are discussed the readers are expected to gain an insightful view on the current trends issues mitigating factors as well as solutions from the book this book consists of selected papers presented at the 2nd international conference on innovative technology engineering and sciences 2020 icites hosted virtually by universiti malaysia pahang on 22nd december 2020 icites is a biennial conference aimed at building a platform that allows relevant stakeholders to share and discuss their latest researches ideas and survey reports from theoretical to a practical standpoint especially in the innovative robotics automation and data analytics tracks which was

published in this book

this book features papers focusing on the implementation of new and future technologies which were presented at the international conference on new technologies development and application held at the academy of science and arts of bosnia and herzegovina in sarajevo on 22 24 june 2023 it covers a wide range of future technologies and technical disciplines including complex systems such as industry 4 0 patents in industry 4 0 robotics mechatronics systems automation manufacturing cyber physical and autonomous systems sensors networks control energy and renewable energy sources automotive and biological systems vehicular networking and connected vehicles effectiveness and logistics systems smart grids nonlinear systems power social and economic systems education and iot this book is oriented towards fourth industrial revolution industry 4 0 which implementation will improve many aspects of human life in all segments and lead to changes in business paradigms and production models further new business methods are emerging transforming production systems transport delivery and consumption which need to be monitored and implemented by every company involved in the global market

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