Bluetooth Based Home Automation and Security System Using ARM9

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Abstract:-Today we are living in 21st century where automation is playing important role in human life. Home automation allows us to control household appliances like light, door, fan, AC etc. It also provides home security and emergency system to be activated. Home automation not only refers to reduce human efforts but also energy saving and time efficiency. The main objective of home automation and security is to help handicapped and old aged people who will enable them to control home appliances and alert them in critical situations.

This paper put forwards the design of home automation and security system using ARM7 LPC2148 board. The design is based on a standalone embedded system board ARM7 LPC2148 at home. Home appliances are connected to the ARM7 and communication is established between the ARM7 and ARM9 with Bluetooth device. The home appliances are connected to the input / output ports of the embedded system board and their status is passed to the ARM7. We would develop an authentication to the system for authorized person to access home appliances. The device with low cost and scalable to less modification to the core is much important. It presents the design and implementation of automation system that can monitor and control home appliances via ARM9 S3C2440A board.

Keywords:- Smart Home; Smart Environment; Bluetooth Module; Embedded Systems; ARM7-MDK kit; wince6.0;ARM9 with GUI.

I. INTRODUCTION

The "Home Automation" concept has existed for many years. The terms "Smart Home", "Intelligent Home" followed and has been used to introduce the concept of networking appliances and devices in the house. Home automation Systems (HASs) represents a great research opportunity in creating new fields in engineering, architecture and computing (Huidobro and Millan, 2004). HASs becoming popular nowadays and enter quickly in this emerging market. However, end users, especially the disabled and old aged due to their complexity and cost, do not always accept these systems. Due to the advancement of wireless technology, there are several different of connections are introduced such as GSM, WIFI, ZIGBEE, and Bluetooth. Each of the connection has their own unique specifications and applications. Among the four popular wireless connections that often implemented in HAS project, Bluetooth is being chosen with its suitable capability. Bluetooth with globally available frequencies of 2400Hz is able to provide connectivity up to 100 meters at speed of up to 3Mbps depending on the Bluetooth device class [1]. In addition, a Bluetooth master device is able to connect up to 7 devices in a

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Bluetooth Based Home Automation And Security System Using Arm9:

Handbook of Research on the IoT, Cloud Computing, and Wireless Network Optimization Singh, Surjit,Mohan Sharma, Rajeev,2019-03-29 ICT technologies have contributed to the advances in wireless systems which provide seamless connectivity for worldwide communication The growth of interconnected devices and the need to store manage and process the data from them has led to increased research on the intersection of the internet of things and cloud computing The Handbook of Research on the IoT Cloud Computing and Wireless Network Optimization is a pivotal reference source that provides the latest research findings and solutions for the design and augmentation of wireless systems and cloud computing The content within this publication examines data mining machine learning and software engineering and is designed for IT specialists software engineers researchers academicians industry professionals and students **Intelligent Communication, Control and Devices** Rajesh Singh,Sushabhan Choudhury,Anita Gehlot,2018-04-10 The book focuses on the integration of intelligent communication systems control systems and devices related to all aspects of engineering and sciences It contains high quality research papers presented at the 2nd international conference ICICCD 2017 organized by the Department of Electronics Instrumentation and Control Engineering of University of Petroleum and Energy Studies Dehradun on 15 and 16 April 2017 The volume broadly covers recent advances of intelligent communication intelligent control and intelligent devices The work presented in this book is original research work findings and practical development experiences of researchers academicians scientists and industrial practitioners **Wearable/Personal Monitoring Devices Present to Future** Gaetano D. Gargiulo,Ganesh R. Naik,2021-10-26 This book discusses recent advances in wearable technologies and personal monitoring devices covering topics such as skin contact based wearables electrodes non contact wearables the Internet of things IoT and signal processing for wearable devices Although it chiefly focuses on wearable devices and provides comprehensive descriptions of all the core principles of personal monitoring devices the book also features a section on devices that are embedded in smart appliances furniture e g chairs which despite their limitations have taken the concept of unobtrusiveness to the next level Wearable and personal devices are the key to precision medicine and the medical community is finally exploring the opportunities offered by long term monitoring of physiological parameters that are collected during day to day life without the bias imposed by the clinical environment Such data offers a prime view of individuals physical condition as well as the efficacy of therapy and occurrence of events Offering an in depth analysis of the latest advances in smart and pervasive wearable devices particularly those that are unobtrusive and invisible and addressing topics not covered elsewhere the book will appeal to medical practitioners and engineers alike Metaheuristic and Machine Learning Optimization Strategies for Complex Systems R., Thanigaivelan,M., Suchithra,S., Kaliappan,Mothilal, T.,2024-07-17 In contemporary engineering domains optimization and decision making issues are crucial Given the vast amounts of available data processing times and memory usage can be substantial Developing and implementing novel

heuristic algorithms is time consuming yet even minor improvements in solutions can significantly reduce computational costs In such scenarios the creation of heuristics and metaheuristic algorithms has proven advantageous The convergence of machine learning and metaheuristic algorithms offers a promising approach to address these challenges Metaheuristic and Machine Learning Optimization Strategies for Complex Systems covers all areas of comprehensive information about hyper heuristic models hybrid meta heuristic models nature inspired computing models and meta heuristic models The key contribution of this book is the construction of a hyper heuristic approach for any general problem domain from a meta heuristic algorithm Covering topics such as cloud computing internet of things and performance evaluation this book is an essential resource for researchers postgraduate students educators data scientists machine learning engineers software developers and engineers policy makers and more **Emerging Trends in Electrical, Communications, and Information Technologies** T. Hitendra Sarma,V. Sankar,Rafi Ahamed Shaik,2019-09-24 This book includes original peer reviewed research from the 3rd International Conference on Emerging Trends in Electrical Communication and Information Technologies ICECIT 2018 held at Srinivasa Ramanujan Institute of Technology Ananthapuramu Andhra Pradesh India in December 2018 It covers the latest research trends and developments in the areas of Electrical Engineering Electronic and Communication Engineering and Computer Science and Information **Research Anthology on Cross-Disciplinary Designs and Applications of Automation** Management Association, Information Resources,2021-10-29 Throughout human history technological advancements have been made for the ease of human labor With our most recent advancements it has been the work of scholars to discover ways for machines to take over a large part of this labor and reduce human intervention These advancements may become essential processes to nearly every industry It is essential to be knowledgeable about automation so that it may be applied Research Anthology on Cross Disciplinary Designs and Applications of Automation is a comprehensive resource on the emerging designs and application of automation This collection features a number of authors spanning multiple disciplines such as home automation healthcare automation government automation and more Covering topics such as human machine interaction trust calibration and sensors this research anthology is an excellent resource for technologists IT specialists computer engineers systems and software engineers manufacturers engineers government officials professors students healthcare administration managers CEOs researchers and academicians **Integrated Green Energy Solutions, Volume 1** Milind Shrinivas Dangate,W. S. Sampath,O. V. Gnana Swathika,Sanjeevikumar Padmanaban,2023-05-12 INTEGRATED GREEN ENERGY SOLUTIONS This first volume in a two volume set presents the state of the art for the concepts practical applications and future of renewable energy and how to move closer to true sustainability Renewable energy supplies are of ever increasing environmental and economic importance in every country worldwide A wide range of renewable energy technologies has been established commercially and recognized as an important set of growth industries for most governments World agencies including the

United Nations have extensive programs to encourage these emerging technologies This book will bridge the gap between descriptive reviews and specialized engineering technologies It centers on demonstrating how fundamental physical processes govern renewable energy resources and their applications Although the applications are updated continually the fundamental principles remain the same and this book will provide a useful platform for those advancing the subject and its industries Integrated Resilient Energy Solutions is a two volume set covering subjects of proven technical and economic importance worldwide Energy supply from renewables is an essential component of every nation s strategy especially when there is responsibility for the environment and sustainability These two volumes will consider the timeless renewable energy technologies principles yet demonstrate modern applications and case studies Whether for the veteran engineer student or other professional these two volumes are a must have for any library **Information and Communication Technology** Durgesh Kumar Mishra,Ahmad Taher Azar,Amit Joshi,2017-10-12 This book volume contains 31 papers presented at ICICT 2016 Second International Congress on Information and Communication Technology The conference was held during 12 13 December 2016 Bangkok Thailand and organized communally by G R Foundation and Computer Society of India Division IV Communication and Division V Education and Research This volume contains papers mainly focused on ICT for computation algorithms and data analytics and IT security **Home Automation For Dummies** Dwight Spivey,2015-02-23 Ready to control you house with your smartphone or tablet Spivey shows you how to control thermostats home security systems and much more Best of all with these plain English instructions you can do it yourself *Home Automation Via Bluetooth Using the Arduino Uno Microcontroller* Ayush Kumar,2016 Abstract Home automation systems have gained popularity in recent years paralleling the advances in the concept of the Internet of Things The current project presents the implementation of an inexpensive home automation system within the framework of assistive technology The system implementation is based on the Arduino microcontroller with Bluetooth communications capability and it is designed for use by the elderly and people with disabilities The system is user friendly with an intuitive interface implemented on an Android based smart phone Demonstrations show that the system facilitates control of home appliances lights heating cooling systems and security devices by the intended users i e the elderly and the disabled **BLUETOOTH BASED HOME AUTOMATION SYSTEM** OMER FAROOQ (TP016040),2012 **Building Smart Home Automation Solutions with Home Assistant** Marco Carvalho,2023-09-15 A step by step guide to building cost effective and complete home automation DIY projects using tools such as Home Assistant Raspberry Pi IoT devices the Tasmota sensor ESP32 and Grafana Key Features Learn by doing using real life practical examples to build your own home automation system Create hack and configure IoT devices through hands on projects to be used with or without Home Assistant Customize your home automation system using Home Assistant Node RED InfluxDB and Grafana Purchase of the print or Kindle book includes a free PDF eBook Book DescriptionPicture a home where you can adjust the lighting based on the time of day or when movement is detected In this same home you can also

detect when a door is unexpectedly opened or an alarm is triggered in response to any suspicious activity Such automated devices form part of a smart home and the exciting part is that this book teaches you how to create and manage these devices all by yourself This book helps you create your own ecosystem to automate your home using Home Assistant software You ll begin by understanding the components of a home automation system and learn how to create hack and configure them to operate seamlessly Then you ll set up Home Assistant on a Raspberry Pi to work as a home automation server build your own IoT sensors based on ESP32 ESP8266 and set up real life automation use cases using hands on examples and projects The chapters will also guide you in using software tools such as Node RED InfluxDB and Grafana to manage present and use data collected from your Home Automation devices Finally you ll gain insights into new technologies and trends in the home automation space to help you continue with your learning journey By the end of this book you ll be able to build your own creative IoT based home automation system using different hardware and software technologies What you will learn Understand the fundamental concepts of home automation systems Set up a home automation system using Home Assistant and Raspberry Pi Create and configure ESP8266 based sensors to work with Home Assistant Hack a commercial actuator to work with Home Assistant using Tasmota Create automations customize and use applications with Home Assistant Leverage IoT software tools to take your home automation to the next level Work on hands on projects including LED strip lights and an ESP32 five zone temperature logger Explore home automation FAQs emerging technologies and trends Who this book is for The book is for engineers developers students makers and enthusiasts who re working on or interested in working with electronics and IoT devices embedded systems systems integration computer software and coding to develop their own smart home automation systems Technicians teachers and other professionals who want to learn home automation related technologies will also find this book useful Prior experience of working with Raspberry Pi creating hardware prototypes and software programming will be beneficial   *Home Automation* Lisa Montgomery, Editor, Electronic House Magazine,2014-09-12 Smart home automated home connected home or intelligent home Whatever you call it a home that s able to take the drudgery out of common everyday tasks is something that every family can appreciate In this inaugural book about home automation you ll learn how to incorporate the right types of products and systems into your house to achieve a new level of comfort convenience safety and efficiency The book walks you step by step through the process of automating your home and because automation systems are able to control just about anything electronic you can imagine we ve provided plenty of practical ideas In 10 Key Features of a Home Automation System and Automation Ideas for Every System of Your House you ll gather more than enough recommendations to get started in your automation endeavor No matter how many great ideas you gather from our Home Automation book though it s important that the system you buy today incorporates the most recent iterations of control technologies We ve followed the automation trends put them into perspective and offer advice on the critical new updates upgrades and upstarts you ll want to look into when selecting a

system In addition to deciding what you want your automation system to do you ll want to determine whether you d like to install the system yourself or hire a professional to handle the task Both methods offer their own unique set of advantages and disadvantages so be sure to read DIY or Professionally Installed before making your decision You ll also want to check out our comprehensive directory of home automation manufacturers before taking the plunge Finally we finish the book with a series of finished automation installations which range from a basic starter package in a condo to a full blown bells and whistles system for a bigger house You ll see what types of features that owners of these homes chose to incorporate and hear how automation is truly making a difference in their lives The technology has been so carefully designed and meticulously installed that you may not even notice it in the full color photography of many of the rooms where lights motorized window shades and A V equipment have been automated to dim brighten turn on and off open and close and adjust and reset based on the time of day occupancy or the single touch of a button **Arduino Bluetooth Based Home Automation** Mehmet AVCU,2021-01-05 Arduino Bluetooth Based Home Automation **Arduino Home Automation Projects** Marco Schwartz,2014-07-23 This book is divided into projects that are explained in a step by step format with practical instructions that are easy to follow If you want to build your own home automation systems wirelessly using the Arduino platform this is the book for you You will need to have some basic experience in Arduino and general programming languages such as C and C to understand the projects in this book **Home Automation Made Easy** Dennis C. Brewer,2013 Make your home smarter safer and more fun and save money too Home automation is finally practical useful and easy Now you can control your home exactly the way you want to without paying monthly fees This book shows how to do it all yourself with today s simpler more reliable less expensive technologies From publisher 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 *Essential Guide to Smart Home Automation Safety and Security* Gerard O'Driscoll,2015-03-02 This book addresses readers who wish to gain an in depth understanding of Smart Home alarm and safety systems Detail is provided on six key smart systems that you can use to enhance your family s home security levels namely smart alarm systems Smart IP cameras Smart combo alarm devices smart access control smart locks and smart doorbells In addition to covering the integration of alarm and fire detection systems with your smartphone App this chapter also deals with adding smart air quality control water and freeze alert capabilities to your home This mini ebook includes

technical illustrations examples of how smart homes are helping people insights from Gerard and details of an awesome monthly giveaway *Home Security System Using Symbian Smartphone and Bluetooth Communication Protocol* Sagar Sonar,California State University, Sacramento,2010 In today s world smartphone has become one of the majorly used electronic devices with millions of user all around the world The smartphones provide plenty of features like large memory different types of user interface GPRS GSM BLUETOOTH etc We can make use of some of these features in commercial world The best way to use it will be for home security and control systems Home security is a major concern nowadays because of the increase in crime rate Also control system is very important to make life easier In this project I am using smartphone to provide home security and control system in better way I am using smartphone to turn ON and OFF the alarms and other control devices and to get notification if any intruder enters in the house The aim of this project is to develop an application for smartphone I have chosen smartphone with Symbian operating systems because it is one of the most popular smartphone operating system in the world The programming language used to develop the application is Python Python is an open source developing language and has very rich features and library functions Python is easy to use and helps to reduce the code size due to its inbuilt functions I will be using Bluetooth communication protocol for wireless communication with the hardware built using micro controller which will control the devices installed in the home I have chosen Bluetooth because it is available in all the smartphones and have many advantages The developed application will help the user to control the operation of their security and control devices using their smartphone eliminating the use of any other hardware or remote controls Nowadays smartphones are easily available in the market with very low cost if we design the same hardware using microcontroller and other peripherals such as keypad LCD wireless module etc It will cost much more than one smartphone handset and will also consume lot of time in designing implementing hardware and testing its functionality also the size will not be so small hence in this project I have considered cost and time as major factors Home Security System DIY Wireless IoT Using ESP32 CAM and Android Robert Chin,2022-08-07 This book shows you how you can save tons of money by building your own low cost maximum privacy and maximum security professional quality wireless home security system from common off the shelf parts You can monitor the home security system using your existing Android cell phone and existing home internet connection You will save lots of money on the home security system hardware itself as well as enjoy free email alert notifications and or low cost cell phone text message alert notifications depending on the monitoring options you choose Easy to understand step by step instructions will be given so that the average non technical person will be able to assemble and operate this home security system The main components of the security system are the ESP32 CAM a motion sensor an Android cell phone and a home internet connection In addition custom software created by the author will be provided for the ESP32 and Android devices Security System Main Features Live Real Time Local Video Monitoring using multiple ESP32 CAM units Free Email Notifications With Images Using Your Existing Home Internet

Connection Low Cost Text Message Notifications Using Your Android Cell Phone Easy Hardware Assembly and Simple Software Setup Procedure Use your existing Android cell phone to control and monitor your alarm system Modular sensor system allows you to add up to 11 ESP32 CAM units with motion sensors to the security system Maximum Security and Privacy Security System Basic Operation 1 Set up your security system for operation using your Controller cell phone 2 Activate the security system using your Controller cell phone 3 Receive emergency text alerts on your personal cell phone if the alarm has been tripped 4 Receive emergency emails with images of people that have tripped the sensors in or outside of your home to an email address you designate 5 If an intruder or other emergency is confirmed then call the police as needed

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Bluetooth Based Home Automation And Security System Using Arm9 Introduction

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