

Microcontroller Based Liquid Level Indicator Project Report

Innovations in Computer Science and Engineering
 Modern Electronics Devices and Communication Systems
 Advances in Data Science
 ISGW 2018 Compendium of Technical Papers
 2020 2nd International Conference on Industrial Electrical and Electronics (ICIEE)
 Trends in Wireless Communication and Information Security
 Micro-Electronics and Telecommunication Engineering
 Handbook of Research on the Internet of Things Applications in Robotics and Automation
 Electronics Projects Vol. 21
 Water Level Controller
 Computer, Communication and Electrical Technology
 Principles of Automation and Control
 Electronic Devices
 BIOMEDICAL INSTRUMENTATION AND MEASUREMENTS
 Examining the Impact of Deep Learning and IoT on Multi-Industry Applications
 Context-Aware Systems and Applications, and Nature of Computation and Communication
 Multipoint Liquid-Level Sensor Based on Bending-Losses in POF
 Trends in Computational Intelligence, Security and Internet of Things
 Human-Centered Technology for a Better Tomorrow
 International Conference on Intelligent Data Communication Technologies and Internet of Things (ICICI) 2018
 50 PIC Microcontroller Projects
 A Handbook of Information Technology
 Designing Embedded Systems with 32-Bit PIC Microcontrollers and MikroC
 Measurement and Instrumentation
 Industrial Control Systems
 ARM-based Microcontroller Projects Using mbed
 Precision Liquid Level Sensor
 Intelligent Communication, Control and Devices
 E-Mobility
 Nanoelectronics, Circuits and Communication Systems
 Advances in Sensors: Reviews, Vol.4 'Sensors and Applications in Measuring and Automation Control Systems'
 Proceedings of Second International Conference on Electrical Systems, Technology and Information 2015 (ICESTI 2015)
 Computational Science and Engineering
 Ultrasonics
 Microcontroller-Based Temperature Monitoring and Control
 BIOMEDICAL INSTRUMENTATION AND MEASUREMENTS, 2nd Ed.
 Electronics Projects Vol. 22 (With CD)
 Second International Conference on Computer Networks and Communication Technologies
 Proceedings of the 1st International Conference on Electronics, Biomedical Engineering, and Health Informatics
 AI for Big Data-Based Engineering Applications from Security Perspectives

Microcontroller Based Liquid Level Indicator Project Report

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MAYRA REGINA

Innovations in Computer Science and Engineering Springer
 The new generation of 32-bit PIC microcontrollers can be used to solve the increasingly complex embedded system design challenges faced by engineers today. This book teaches the basics of 32-bit C programming, including an introduction to the PIC 32-bit C compiler. It includes a full description of the architecture of 32-bit PICs and their applications, along with coverage of the relevant development and debugging tools. Through a series of fully realized example projects, Dogan Ibrahim demonstrates how engineers can harness the power of this new technology to optimize their embedded designs. With this book you will learn: The advantages of 32-bit PICs The basics of 32-bit PIC programming The detail of the architecture of 32-bit PICs How to interpret the Microchip data sheets and draw out their key points How to use the built-in peripheral interface

devices, including SD cards, CAN and USB interfacing How to use 32-bit debugging tools such as the ICD3 in-circuit debugger, mikroCD in-circuit debugger, and Real Ice emulator Helps engineers to get up and running quickly with full coverage of architecture, programming and development tools Logical, application-oriented structure, progressing through a project development cycle from basic operation to real-world applications Includes practical working examples with block diagrams, circuit diagrams, flowcharts, full software listings an in-depth description of each operation

Modern Electronics Devices and Communication Systems
 Springer Nature

This book presents selected articles from India Smart Grid Week (ISGW 2018), held on March 5 to 9, 2018, at the Manekshaw Centre, New Delhi, India. It was the fourth conference and exhibition on smart grids and smart cities organized by the India Smart Grid Forum (ISGF), a Government of India public-private partnership, tasked with accelerating smart grid deployment

across the country. Providing current-scenario-based updates on the Indian power sector, the book also highlights various disruptive technologies.

Advances in Data Science Springer

Designed as a text for the undergraduate students of instrumentation, electrical, electronics and biomedical engineering, it covers the entire range of instruments and their measurement methods used in the medical field. The functions of the biomedical instruments and measurement methods are presented keeping in mind those students who have minimum required knowledge of human physiology. The purpose of this book is to review the principles of biomedical instrumentation and measurements employed in the hospital industry. Primary emphasis is laid on the method rather than micro level mechanism. This book serves two purposes: One is to explain the mechanism and functional details of human body, and the other is to explain how the biological signals of human body can be acquired and used in a successful manner. KEY FEATURES : More than 180 illustrations throughout the book. Short questions with answers at the end of each chapter. Chapter-end exercises to reinforce the understanding of the subject.

ISGW 2018 Compendium of Technical Papers IGI Global

This book constitutes the thoroughly refereed post-conference proceedings of the Third International Conference on Advances in Data Science, ICIIT 2018, held in Chennai, India, in December 2018. The 11 full papers along with 4 short papers presented were carefully reviewed and selected from 74 submissions. The papers are organized in topical sections on data science foundations, data management and processing technologies, data analytics and its applications.

2020 2nd International Conference on Industrial Electrical and Electronics (ICIEE) PHI Learning Pvt. Ltd.

This volume constitutes the refereed proceedings of the Third International Conference on Computational Intelligence, Security and Internet of Things, ICCISIoT 2020, held in Agartala, India, in December 2020. Due to the COVID-19 pandemic the conference was held online. The 23 full papers and 4 short papers were carefully reviewed and selected from 113 submissions. The papers are organised according to the following topics: computational intelligence, security, and internet of things.

Trends in Wireless Communication and Information Security Springer Nature

Microcontroller-Based Temperature Monitoring and Control is an essential and practical guide for all engineers involved in the use of microcontrollers in measurement and control systems. The book provides design principles and application case studies backed up with sufficient control theory and electronics to develop your own systems. It will also prove invaluable for students and experimenters seeking real-world project work involving the use of a microcontroller. Techniques for the application of microcontroller-based control systems are backed up with the basic theory and mathematics used in these designs, and various digital control techniques are discussed with reference to digital sample theory. The first part of the book covers temperature sensors and their use in measurement, and includes the latest non-invasive and digital sensor types. The second part covers sampling procedures, control systems and the application of digital control algorithms using a microcontroller. The final chapter describes a complete microcontroller-based temperature control system, including a full software listing for the programming of the controller. *Provides practical guidance and essential theory making it ideal for engineers facing a design challenge or students devising a project *Includes real-world design guides for implementing a microcontroller-based control systems *Requires only basic mathematical and engineering

background as the use of microcontrollers is introduced from first principles

Micro-Electronics and Telecommunication Engineering

Springer Nature

This book discusses data communication and computer networking, communication technologies and the applications of IoT (Internet of Things), big data, cloud computing and healthcare informatics. It explores, examines and critiques intelligent data communications and presents inventive methodologies in communication technologies and IoT. Aimed at researchers and academicians who need to understand the importance of data communication and advanced technologies in IoT, it offers different perspectives to help readers increase their knowledge and motivates them to conduct research in the area, highlighting various innovative ideas for future research.

Handbook of Research on the Internet of Things Applications in Robotics and Automation Springer Science & Business Media

Electronics Projects Vol. 21 Springer Nature

This book is a translation of 'Physik und Technik des Ultraschalls', originally published in 1988 by S. Hirzel Verlag, Stuttgart. As in the German edition, it is based on lectures on ultrasound which the author has given over the past fifteen years to students of electrical engineering and physics at the Rheinisch-Westfälische Technische Hochschule Aachen, Germany. Its purpose is to explain and describe the peculiarities of high frequency sound with general acoustics as a foundation. It is these peculiarities which have led to the development of specific methods of sound generation and sound detection on the one hand and are relevant to the way ultrasound propagates in various materials, and which are the origin of a wide range of technical applications on the other. The first part of the book is devoted to the fundamentals of ultrasonics. Since the reader is not expected to have a knowledge of general acoustics, introductory chapters survey the basic ideas and laws of acoustics without systematically deriving the formulae presented. Likewise, the third chapter, which deals with the radiation and diffraction of sound, is still fairly general, although it is somewhat more adapted to the specific requirements of ultrasound. In the three subsequent chapters, the generation and detection or measurement of ultrasound is dealt with. The seventh chapter is a digression on the peculiarities of the hypersonic range.

Water Level Controller IGI Global

This book features a collection of high-quality, peer-reviewed research papers presented at the 8th International Conference on Innovations in Computer Science & Engineering (ICICSE 2020), held at Guru Nanak Institutions, Hyderabad, India, on 28-29 August 2020. It covers the latest research in data science and analytics, cloud computing, machine learning, data mining, big data and analytics, information security and privacy, wireless and sensor networks and IoT applications, artificial intelligence, expert systems, natural language processing, image processing, computer vision and artificial neural networks.

Computer, Communication and Electrical Technology EFY Enterprises Pvt Ltd

The book provides easy interpretable explanations for the key technologies involved in Electric Vehicles and Hybrid Electric Vehicles. The authors discuss the various electrical machines, drives, and controls used in EV and HEV. The book provides a detailed coverage of Regenerative Braking Systems used in EV and HEV. The book also illustrates the battery technology and battery management systems in EV and HEV. This book is intended for academicians, researchers and industrialists. In addition, this book has the following features Discusses the various Economic and Environmental Impact of Electric and

Hybrid Electric Vehicles Discusses the role of Artificial Intelligence in Electric / Hybrid Electric Vehicles Illustrates the concept of Vehicle to Grid Technology and the smart charging station infrastructure and issues involved in the same Elucidates the concept of Internet of Vehicles Presents the latest research and applications in alternate energy vehicles

Principles of Automation and Control Springer

This book constitutes the refereed post-conference proceedings of the International Conferences ICCASA and ICTCC 2019, held in November 2019 in My Tho, Vietnam. The 20 revised full papers presented were carefully selected from 33 submissions. The papers of ICCASA cover a wide spectrum in the area of context-aware-systems. CAS is characterized by its self- facets such as self-organization, self-configuration, self-healing, self-optimization, self-protection used to dynamically control computing and networking functions. The papers of ICTCC cover formal methods for self-adaptive systems and discuss natural approaches and techniques for computation and communication.

Electronic Devices Springer Nature

The book focuses on the integration of intelligent communication systems, control systems, and devices related to all aspects of engineering and sciences. It includes high-quality research papers from the 3rd international conference, ICICCD 2018, organized by the Department of Electronics, Instrumentation and Control Engineering at the University of Petroleum and Energy Studies, Dehradun on 21-22 December 2018. Covering a range of recent advances in intelligent communication, intelligent control and intelligent devices., the book presents original research and findings as well as researchers' and industrial practitioners' practical development experiences of.

BIOMEDICAL INSTRUMENTATION AND MEASUREMENTS Bentham Science Publishers

This book presents select and peer-reviewed proceedings of the International Conference on Smart Communication and Imaging Systems (MEDCOM 2021). The contents explore the recent technological advances in the field of next-generation electronics devices and communication systems. The topics include the design and development of smart, secure, and reliable future communication networks; satellite, radar, and microwave techniques for intelligent communication. The book also covers methods and applications of GIS and remote sensing; medical image analysis and its applications in smart health. This book can be useful for students, researchers, and professionals working in the field of communication systems and image processing.

Examining the Impact of Deep Learning and IoT on Multi-Industry Applications Springer Nature

Deep learning, as a recent AI technique, has proven itself efficient in solving many real-world problems. Deep learning algorithms are efficient, high performing, and an effective standard for solving these problems. In addition, with IoT, deep learning is in many emerging and developing domains of computer technology. Deep learning algorithms have brought a revolution in computer vision applications by introducing an efficient solution to several image processing-related problems that have long remained unresolved or moderately solved. Various significant IoT technologies in various industries, such as education, health, transportation, and security, combine IoT with deep learning for complex problem solving and the supported interaction between human beings and their surroundings.

Examining the Impact of Deep Learning and IoT on Multi-Industry Applications provides insights on how deep learning, together with IoT, impacts various sectors such as healthcare, agriculture, cyber security, and social media analysis applications. The chapters present solutions to various real-world problems using these methods from various researchers' points of view. While

highlighting topics such as medical diagnosis, power consumption, livestock management, security, and social media analysis, this book is ideal for IT specialists, technologists, security analysts, medical practitioners, imaging specialists, diagnosticians, academicians, researchers, industrial experts, scientists, and undergraduate and postgraduate students who are working in the field of computer engineering, electronics, and electrical engineering.

Context-Aware Systems and Applications, and Nature of Computation and Communication Springer Nature

INDUSTRIAL CONTROL SYSTEMS This volume serves as a comprehensive guide in the journey of industrial control systems with a multidisciplinary approach to the key engineering problems in the 21st century. The journey of the control system may be viewed from the control of steam engines to spacecraft, aeroplane missile control systems to networked control systems and cybersecurity controls. In terms of industrial control and application, the journey starts from the design of P-I-D controllers to fuzzy controllers, neuro-fuzzy controllers, backstepping controllers, sliding mode controllers, and event-triggered controls for networked control systems. Recently, control theory has spread its golden feathers in different fields of engineering by use of the splendid tool of the control system. In this era, the boom of the Internet of Things is at its maximum pace. Different biomedical applications also come under this umbrella and provide the easiest way to continuous monitoring. One of the prominent research areas of green energy and sustainable development in which control plays a vital role is load frequency controllers, control of solar thermal plants, an event-driven building energy management system, speed-sensorless voltage and frequency control in autonomous DFIG-based wind energy, Hazardous Energy Control Programs, and many more. This exciting new volume: Offers a complete journey through industrial control systems Is written for multidisciplinary students and veteran engineers alike Benefits researchers from diverse disciplines with real-world applications

Multipoint Liquid-Level Sensor Based on Bending-Losses in POF Newnes

ARM-based Microcontroller Projects Using mbed gives readers a good understanding of the basic architecture and programming of ARM-based microcontrollers using ARM's mbed software. The book presents the technology through a project-based approach with clearly structured sections that enable readers to use or modify them for their application. Sections include: Project title, Description of the project, Aim of the project, Block diagram of the project, Circuit diagram of the project, Construction of the project, Program listing, and a Suggestions for expansion. This book will be a valuable resource for professional engineers, students and researchers in computer engineering, computer science, automatic control engineering and mechatronics. Includes a wide variety of projects, such as digital/analog inputs and outputs (GPIO, ADC, DAC), serial communications (UART, I2C, SPI), WIFI, Bluetooth, DC and servo motors Based on the popular Nucleo-L476RG development board, but can be easily modified to any ARM compatible processor Shows how to develop robotic applications for a mobile robot Contains complete mbed program listings for all the projects in the book

Trends in Computational Intelligence, Security and Internet of Things CRC Press

This book presents new communication and networking technologies, an area that has gained significant research attention from both academia and industry in recent years. It also discusses the development of more intelligent and efficient communication technologies, which are an essential part of current day-to-day life, and reports on recent innovations in

technologies, architectures, and standards relating to these technologies. The book includes research that spans a wide range of communication and networking technologies, including wireless sensor networks, big data, Internet of Things, optical and telecommunication networks, artificial intelligence, cryptography, next-generation networks, cloud computing, and natural language processing. Moreover, it focuses on novel solutions in the context of communication and networking challenges, such as optimization algorithms, network interoperability, scalable network clustering, multicasting and fault-tolerant techniques, network authentication mechanisms, and predictive analytics. Human-Centered Technology for a Better Tomorrow Springer Nature

Designed as a text for the undergraduate students of instrumentation, electrical, electronics and biomedical engineering, the second edition of the book covers the entire range of instruments and their measurement methods used in the medical field. The functions of the biomedical instruments and measurement methods are presented keeping in mind those students who have minimum required knowledge of human physiology. The purpose of this book is to review the principles of biomedical instrumentation and measurements employed in the hospital industry. Primary emphasis is laid on the method rather than micro level mechanism. This book serves two purposes: One is to explain the mechanism and functional details of human body, and the other is to explain how the biological signals of human body can be acquired and used in a successful manner. New to the second edition • The chapters of the book have been reorganized so that the students can understand the concepts in

a systematic manner. • The chapter on Bioelectric Potentials and Transducers has been divided into three new chapters on Transducers for Biomedical Applications, Bioelectric Potential and Electrodes and some new sections are also included in these chapters. • A few sections have also been added to the chapter titled Electrical Safety of Medical Equipment and Patients.

International Conference on Intelligent Data Communication Technologies and Internet of Things (ICICI) 2018 Academic Press

The First International Conference on Advancement of Computer, Communication and Electrical Technology focuses on key technologies and recent progress in computer vision, information technology applications, VLSI, signal processing, power electronics & drives, and application of sensors & transducers, etc. Topics in this conference include: Computer Science This conference encompassed relevant topics in computer science such as computer vision & intelligent system, networking theory, and application of information technology. Communication Engineering To enhance the theory & technology of communication engineering, ACCET 2016 highlighted the state-of-the-art research work in the field of VLSI, optical communication, and signal processing of various data formatting. Research work in the field of microwave engineering, cognitive radio and networks are also included. Electrical Technology The state-of-the-art research topic in the field of electrical & instrumentation engineering is included in this conference such as power system stability & protection, non-conventional energy resources, electrical drives, and biomedical engineering. Research work in the area of optimization and application in control, measurement & instrumentation are included as well.