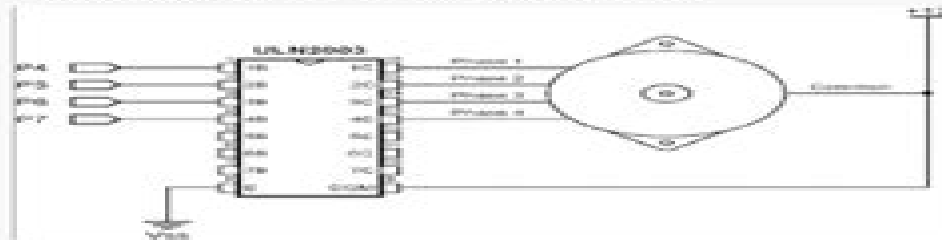


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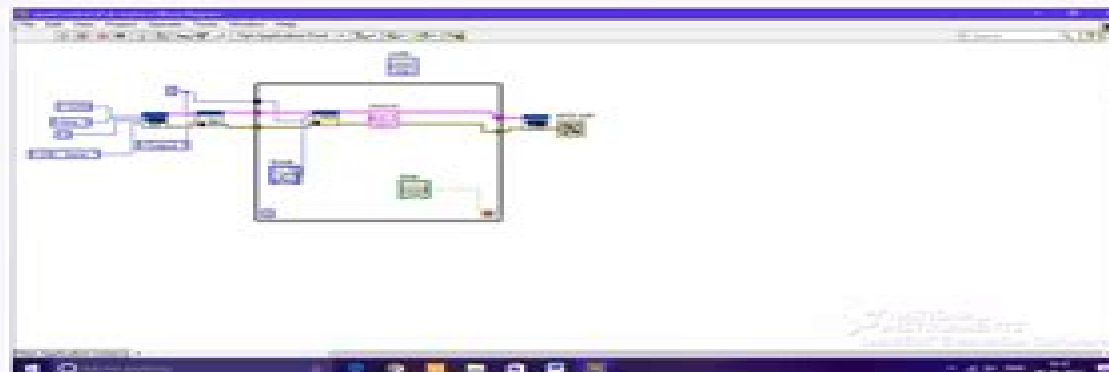


Interface Arduino through LabVIEW:

Step 1: In LabVIEW (any version) establish the following front panel



Step 2: Establish the following block diagram.



Stepper Motor Driver Using Labview

**Rajesh Singh, Anita Gehlot, Bhupendra
Singh, Sushabhan Choudhury**



Stepper Motor Driver Using Labview:

Learn LabVIEW 2013 / 2014 Fast Douglas Stamps, 2015 Learn LabVIEW 2013 2014 Fast is written for users that have no experience with LabVIEW and only a limited understanding of automatic data acquisition This primer will help you quickly become proficient using LabVIEW and confident in your ability to create applications in a wide variety of data acquisition topics The goal of this primer is to introduce you to LabVIEW for hands on use in automatic data acquisition and controls applications This primer uses a number of practical real life examples to provide both breadth and depth to the topic The real life examples used in this book demonstrate the value of LabVIEW provide motivation for learning LabVIEW and make the examples fun to program The first chapter of this book is designed to introduce you to the general concepts of LabVIEW through the development of a general program that acquires analog input data The rest of the book introduces you to general concepts of data measurement and generation using LabVIEW's DAQ Assistants Express VIs and the configuration approach for automatic data acquisition This primer has a unique modular structure that does not require the chapters to be completed in succession After you complete the first chapter you are free to complete whichever sections you would like in the order you would like to complete them allowing you to focus on the topics that are of most interest to you Each section in the primer introduces you to a new data acquisition topic After an introduction to the topic a program is developed within this topic using step by step instructions Each chapter concludes with several additional practical application problems where the data acquisition program is given but the detailed steps to create the program are left to you Example problems are provided for all modes of data acquisition including analog input and output digital input and output and counters For example the problems show many aspects of analog input such as hardware and software timing buffered and triggered acquisition and examples with common sensors such as thermocouples and strain gages Examples from other acquisition modes show how to drive many common output devices such as stepper motors servo motors and DC motors as well as software control programs such as the PID compensator and pulse width modulation VIRTUAL INSTRUMENTATION USING LABVIEW

JEROME, JOVITHA, 2010-03-29 This book provides a practical and accessible understanding of the fundamental principles of virtual instrumentation It explains how to acquire analyze and present data using LabVIEW Laboratory Virtual Instrument Engineering Workbench as the application development environment The book introduces the students to the graphical system design model and its different phases of functionality such as design prototyping and deployment It explains the basic concepts of graphical programming and highlights the features and techniques used in LabVIEW to create Virtual Instruments VIs Using the technique of modular programming the book teaches how to make a VI as a subVI Arrays clusters structures and strings in LabVIEW are covered in detail The book also includes coverage of emerging graphical system design technologies for real world applications In addition extensive discussions on data acquisition image acquisition motion control and LabVIEW tools are presented This book is designed for undergraduate and postgraduate students of

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programs such as the PID compensator and pulse width modulation **Arduino-Based Embedded Systems** Rajesh Singh, Anita Gehlot, Bhupendra Singh, Sushabhan Choudhury, 2017-11-22 Arduino is an open source electronics platform based on easy to use hardware and software while LabVIEW is a graphical programming telling how to connect functions and work with a variety of datatypes when constructing applications This book will help beginners to get started with Arduino based embedded systems including essential know how of the programming and interfacing of the devices Book includes programming and simulation of Arduino based projects and interfacing with LabVIEW based on practical case studies The book comprises of total twenty five chapters with description working model of LabVIEW and programming with Arduino IDE

Advances in Communication and Computational Technology Gurdeep Singh Hura, Ashutosh Kumar Singh, Lau Siong Hoe, 2020-08-13 This book presents high quality peer reviewed papers from the International Conference on Advanced Communication and Computational Technology ICACCT 2019 held at the National Institute of Technology Kurukshetra India

The contents are broadly divided into four parts i Advanced Computing ii Communication and Networking iii VLSI and Embedded Systems and iv Optimization Techniques The major focus is on emerging computing technologies and their applications in the domain of communication and networking The book will prove useful for engineers and researchers working on physical data link and transport layers of communication protocols Also this will be useful for industry professionals interested in manufacturing of communication devices modems routers etc with enhanced computational and data handling capacities

LabVIEW Riccardo de Asmundis,2021-07-28 The LabVIEW software environment from National Instruments is used by engineers and scientists worldwide for a variety of applications This book examines many of these applications including modeling data acquisition monitoring electrical networks studying the structural response of buildings to earthquakes and more

Smart Materials and Manufacturing Technologies for Sustainable Development Vijeesh Vijayan,Rashmi P. Shetty,Srinivasa P. Pai,2024-10-24 This book offers a comprehensive exploration of Smart Materials and Manufacturing Technologies for Sustainable Development delves into the dynamic intersection of innovative materials intelligent manufacturing and sustainable practices presenting a vital resource for researchers engineers and professionals seeking to shape a greener and more advanced future Covering a wide range of topics the book delves into the latest advancements in materials processing with a particular focus on cutting edge technologies such as advanced manufacturing nanotechnology and materials The book addresses the pressing need for sustainable manufacturing practices unveiling eco friendly approaches that reduce environmental impact without compromising performance Chapters dedicated to artificial intelligence and machine learning illuminate how these game changing technologies facilitate manufacturing materials characterization and process optimization By integrating IoT Industry 4 0 robotics and automation this book highlights the growing synergy between intelligent manufacturing and sustainable materials paving the way for increased efficiency and productivity It examines the importance of advanced materials characterization techniques empowering researchers to gain deeper insights into materials properties behaviour and potential applications With its multidisciplinary approach this book appeals to a diverse audience including materials scientists manufacturing engineers environmentalists policymakers and students eager to contribute to a more sustainable and technologically advanced society

Rapid Prototyping Control Systems Design Akintomide Akinola,2010-06

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The Ultimate AndroidAQ Guide Rick Fluck, The Ultimate AndroidAQ Guide is an in depth look into the techniques of data acquisition and process control using the parallel processing micro controller on the AndroidAQ module It teaches you sensing and electronic drive circuits and how to implement these circuits in programming languages like Android LabVIEW Java and Python The book also shows you how to leverage and use the menu command structure used in the AndroidAQ open source firmware for the many data acquisition tasks that are used in robotic and product design Many examples are given to allow you to control your AndroidAQ module in ways other popular development modules can not via USB Bluetooth or Wi Fi communication It is a guide to help you make your next project be part of the Internet of Things

Aktuelle Methoden der Laser- und Medizinphysik Ulrich Hartmann, 2005

Computer and Computing Technologies in Agriculture VII Daoliang Li, Yingyi Chen, 2014-02-21 The two volume set IFIP AICT 419 and 420 constitutes the refereed post conference proceedings of the 7th IFIP TC 5 WG 5.14 International Conference on Computer and Computing Technologies in Agriculture CCTA 2013 held in Beijing China in September 2013 The 115 revised papers presented were carefully selected from numerous submissions They cover a wide range of interesting theories and applications of information technology in agriculture including Internet of things and cloud computing simulation models and decision support systems for agricultural production smart sensor monitoring and control technology traceability and e commerce technology computer vision computer graphics and virtual reality the application of information and communication technology in agriculture and universal information service technology and service systems development in rural areas

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nanoparticles designed for PAI photoacoustic molecular imaging photoacoustic spectroscopy **Penetrating Radiation Systems and Applications** ,1999 **Measuring Roots** Stefano Mancuso,2011-10-26 Roots represent half of the plant body and arguably the more interesting half Despite its obvious importance for the whole plant until recently our knowledge of the root apparatus was very limited mostly due to the inadequacy of the techniques available Recent advances in the visualization and measurement of roots have resulted in significant progress in our understanding of root architecture growth and behaviour In this book international experts highlight the most advanced techniques both lab and field methods and discuss them in detail Measuring Roots combines academic and practical aspects of this topic making it a universal handbook for all researchers and others interested in root measuring methods First International Conference on Sustainable Technologies for Computational Intelligence Ashish Kumar Luhach,Janos Arpad Kosa,Ramesh Chandra Poonia,Xiao-Zhi Gao,Dharm Singh,2019-11-01 This book gathers high quality papers presented at the First International Conference on Sustainable Technologies for Computational Intelligence ICTSCI 2019 which was organized by Sri Balaji College of Engineering and Technology Jaipur Rajasthan India on March 29 30 2019 It covers emerging topics in computational intelligence and effective strategies for its implementation in engineering applications Modelling and Control of Switched Reluctance Machines Rui Araújo,José Camacho,2020-09-09 Today switched reluctance machines SRMs play an increasingly important role in various sectors due to advantages such as robustness simplicity of construction low cost insensitivity to high temperatures and high fault tolerance They are frequently used in fields such as aeronautics electric and hybrid vehicles and wind power generation This book is a comprehensive resource on the design modeling and control of SRMs with methods that demonstrate their good performance as motors and generators

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