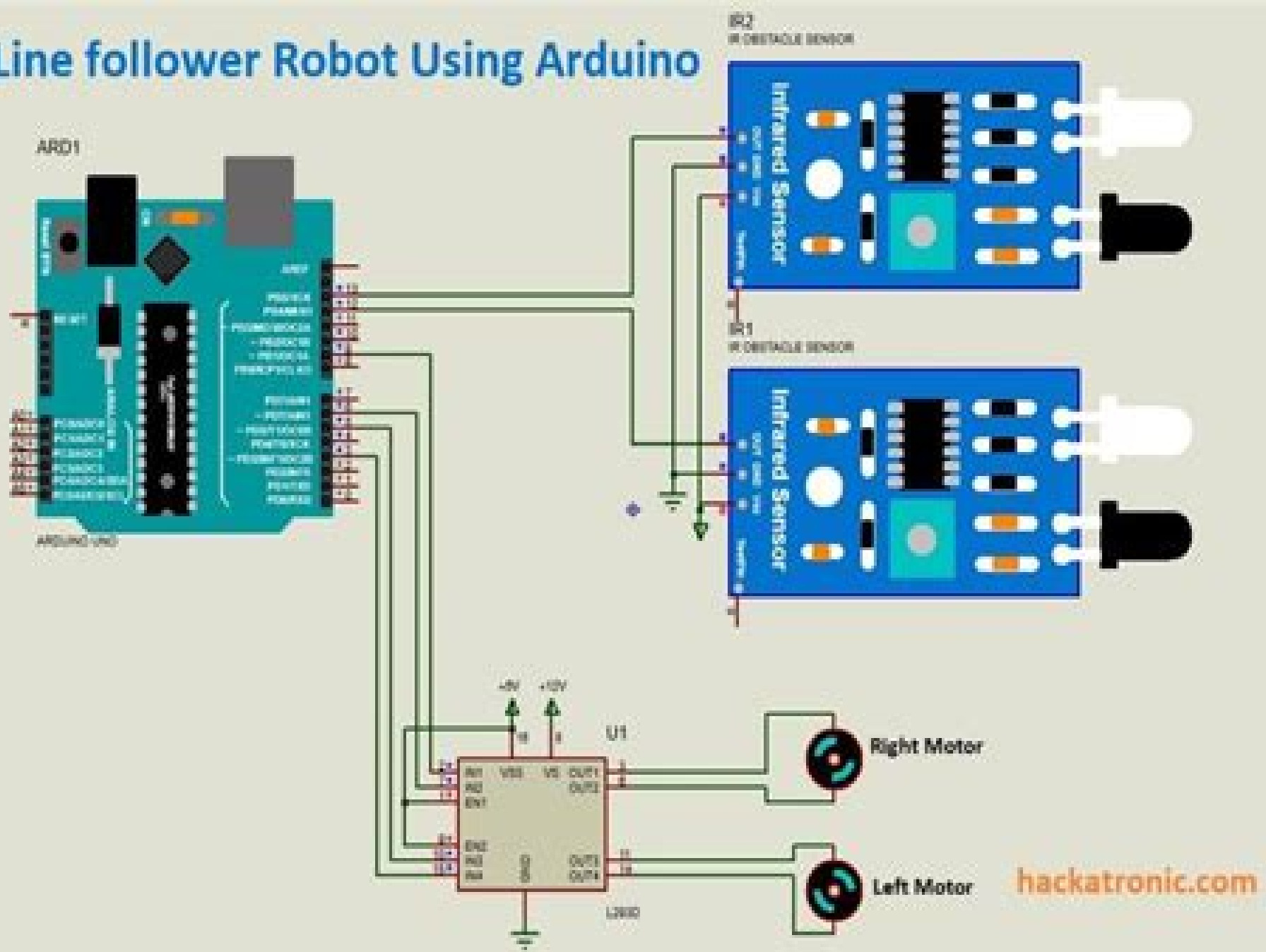


# Line follower Robot Using Arduino



# Line Follower Robot Project Circuit

**Sai Yamanoor, Srihari Yamanoor**



## Line Follower Robot Project Circuit:

Digital control methods for a line following robot Steffen Block, 2003-12-09 Inhaltsangabe Abstract The project aim was to build a robot controlled by a PIC microcontroller to follow a line completely autonomously and as quickly as possible The robot meets the requirements from the RoboRama Contest followed a T shape course and obtained more safety features Different kinds of design features and digital algorithms were developed and tested in order to achieve the best results Applied project management techniques and used key skills guaranteed the successful completion of the project in the design and construction of hardware and software technologies The hardware was based on a block structure with infrared sensors at the front of the vehicle Their analogue signals were transferred to digital logic with a comparator This information used a PIC 16F84A microcontroller to control the movement and direction of the robot with pulse width modulation PWM All parts were mounted on a chassis implemented with a mechanical construction set Batteries of 9V provided the necessary power supply Adjustments were done through iterative steps to come to the final result of the robot system The main adapted design feature was the motor and steering system First of all a separate servomotor for the steering and a single DC motor for the forward movement was fixed Through implemented and first testing steps this resolution lacked the required performance Hence the design changed to two DC motors which offered a satisfactory solution The electronic circuit was designed with the computer aided design tool Proteus and executed as a strip line board The software algorithm development started with the truth table to reduce the possible events from thirty two to the eleven applied conditions The generated flowchart gave the program a structure and applied the truth table decision in different PWM generations Finally the software was written in assembler language and implemented on the PIC Inhaltsverzeichnis Table of Contents iTitlei iiAbstractii iiiAcknowledgementsiii ivList of Figuresiv vList of Tablesvi viList of Abbreviationsvii viiList of Symbolsix viiiTable of Contentsx 1 Introduction1 1 1Project Aims2 1 2RoboRama Rules2 2 Specification and Analysis5 2 1Specification of the project5 2 1 1Research and definition for the project5 2 1 2Resources management7 2 2Project time plan8 3 Design of the robot9 3 1Design of the electronic hardware11 3 1 1Sensors OPD 70911 3 1 2Comparator Enabling Healthcare 4.0 for Pandemics Abhinav Juneja, Vikram Bali, Sapna Juneja, Vishal Jain, Prashant Tyagi, 2021-09-22 ENABLING HEALTHCARE 4 0 for PANDEMICS The book explores the role and scope of AI machine learning and other current technologies to handle pandemics In this timely book the editors explore the current state of practice in Healthcare 4 0 and provide a roadmap for harnessing artificial intelligence machine learning and Internet of Things as well as other modern cognitive technologies to aid in dealing with the various aspects of an emergency pandemic outbreak There is a need to improvise healthcare systems with the intervention of modern computing and data management platforms to increase the reliability of human processes and life expectancy There is an urgent need to come up with smart IoT based systems which can aid in the detection prevention and cure of these pandemics with more precision There are a lot of challenges to overcome but this book proposes

a new approach to organize the technological warfare for tackling future pandemics In this book the reader will find State of the art technological advancements in pandemic management AI and ML based identification and forecasting of pandemic spread Smart IoT based ecosystem for pandemic scenario Audience The book will be used by researchers and practitioners in computer science artificial intelligence bioinformatics data scientists biomedical statisticians as well as industry professionals in disaster and pandemic management      **Intel Edison Projects** Avirup Basu,2017-05-30 Build powerful Robots and IoT solutions using Intel Edison About This Book Learn to build advanced level robots with Intel Edison and Arduino Efficiently build and program home automation and IoT projects with Intel Edison Master the skills of creating enticing projects with Intel Edison Who This Book Is For If you are a hobbyist robot engineer IoT enthusiast programmer or developer who wants to create autonomous projects with Intel Edison then this book is for you Prior programming knowledge would be beneficial What You Will Learn Program your device using the Arduino processor language Python and Node js Interface different sensors with the Intel Edison Build a home automation system using MQTT Android and WPF Perform face detection using Intel Edison Develop a high speed line follower robot Control a robot using a PC application and an custom controller In Detail Change the way you look at embedded electronics with Intel Edison It is a small computing platform packed with a set of robust features to deliver hands on performance durability and software support This book is a perfect place to kickstart development and rapid prototyping using Intel Edison It will start by introducing readers to the Intel Edison board and explaining how to get started with it You will learn how to build a mini weather station which will help you to acquire temperature and smoke level and push it to the IoT platform Then you will see how to build a home automation device and control your appliances using an Android app Furthermore we will build a security system using a webcam to detect faces and perform voice recognition Toward the end the book will demonstrate how you can build two robots which will be based on different line sensing sensors and can be controlled by a PC The book will guide the readers through each and every step of execution of a project using Intel Edison Style and approach A project based guide that will take the readers through various domains of projects like robotics IoT and so on      [Raspberry Pi Mechatronics Projects HOTSHOT](#) Sai Yamanoor,Srihari Yamanoor,2015-02-26 This book is targeted towards beginners and intermediate designers of mechatronic systems and embedded system design Some familiarity with the Raspberry Pi and Python programming is preferred but not required      [Control Engineering Theory and Applications](#) Jahangir Alam,Guoqing Hu,Hafiz Md. Hasan Babu,Huazhong Xu,2022-11-17 The book provides general knowledge of automatic control engineering and its applications Providing an overview of control theory and systems the chapters introduce transfer functions modeling of control systems automatic control systems block diagrams and signal flow graphs While control system analysis and design are accompanied by root locus methods and frequency response analyses distributed control systems nonlinearity in control systems including Z transformation are also presented With straightforward demonstrations examples and multiple choice questions this book

can be used as a reference textbook for electrical and electronics engineering computer control engineering automation engineering mechatronics engineering mechanics robotics AI control systems hydraulics process engineering safety control engineering aeronautical and aerospace engineering auto pilot system decision making system and stock exchange and will be suitable for majors non majors and experts in the field of science and technology      **The 8th International Conference on Advanced Machine Learning and Technologies and Applications (AMLTA2022)** Aboul Ella Hassanien,Rawya Y. Rizk,Václav Snášel,Rehab F. Abdel-Kader,2022-04-16 This book constitutes the refereed proceedings of the 8th International Conference on Advanced Machine Learning Technologies and Applications AMLTA 2022 held in Cairo Egypt during May 5 7 2022 The 8th edition of AMLTA will be organized by the Scientific Research Group in Egypt SRGE Egypt collaborating with Port Said University Egypt and VSB Technical University of Ostrava Czech Republic AMLTA series aims to become the premier international conference for an in depth discussion on the most up to date and innovative ideas research projects and practices in the field of machine learning technologies and their applications The book covers current research on advanced machine learning technology including deep learning technology sentiment analysis cyber physical system IoT and smart cities informatics and AI against COVID 19 data mining power and control systems business intelligence social media digital transformation and smart systems      *123 Robotics Experiments for the Evil Genius* Myke Predko,2003-05-21 123 ROBOT EXPERIMENTS 123 STEPS NEEDED TO BRING OUT THE GENIUS IN EVERY BASEMENT HOBBYIST If you enjoy tinkering in your workshop and have a fascination for robotics you ll have hours of fun working through the 123 experiments found in this innovative project book More than just an enjoyable way to spend time these exciting experiments also provide a solid grounding in robotics electronics and programming Each experiment builds on the skills acquired in those before it so you develop a hands on nuts and bolts understanding of robotics from the ground up 123 Robotics Projects for the Evil Genius Introduces you to robotics electronics and programming for robotics step by step you don t need to be a science whiz to get started but you will be when you have finished Vividly explains the science behind robots and the technologies needed to build them including Electronics Mechanical assembly Motors and batteries Programming and microcontrollers Shows how you can create simple robots and models using materials found around the house and workroom Requires only inexpensive easily obtained parts and tools Provides a PCB printed circuit board that will make it easy to create the circuits used in this book as well as your own experiments Gives you directions for building a maze solving robot two different designs for a light seeking robot an artificial intelligence program that will respond to you and much more Explains underlying principles and suggests other applications Supplies parts lists and program listings IMAGINATIVE EXPERIMENTS THAT TEACH THE BASICS WHILE PROVIDING HOURS OF FUN      Arduino The Best 120 Projects Mehmet AVCU,2023-06-25 Arduino The Best 120 Projects      **Robot Building for Beginners, Third Edition** David Cook,2015-09-02 I wrote this book because I love building robots I want you to love building robots too It took me a while to

learn about many of the tools and parts in amateur robotics Perhaps by writing about my experiences I can give you a head start David Cook Robot Building for Beginners Third Edition provides basic practical knowledge on getting started in amateur robotics There is a mix of content from serious reference tables and descriptions to personal stories and humorous bits The robot described and built in this book is battery powered and about the size of a lunch box It is autonomous that is it isn't remote controlled The book is broken up into small chapters suitable for bedtime or bathroom reading The characteristics and purposes of each major component resistor transistor wire and motor are described followed by a hands on experiment to demonstrate Not only does this help the reader to understand a particular piece but it also prepares them with processes to learn new parts on their own An appendix offers an introduction to 3D printing and parts of the robot can as an alternative be printed using a 3D printer The master project of the book is a simple entertaining line following robot

*Innovator's Era* Shashank Shekhar Mishra, 2021-02-25 All through our academics we are supposed to perform some research based projects Most of us carry our projects in higher education and or become a research scholar But in general our innovations do not receive vital visibility So we came up with the idea of creating a platform that helps researchers in attaining visibility on their innovative ideas The sole aim of the Innovators Era is to encourage young minds by rewarding them for their brainstorming ideas We want our readers to acknowledge the obscured innovations taking place around us

**Arduino Microcontroller Processing for Everyone! Third Edition** Steven F. Barrett, 2022-05-31 This book is about the Arduino microcontroller and the Arduino concept The visionary Arduino team of Massimo Banzi David Cuartielles Tom Igoe Gianluca Martino and David Mellis launched a new innovation in microcontroller hardware in 2005 the concept of open source hardware Their approach was to openly share details of microcontroller based hardware design platforms to stimulate the sharing of ideas and promote innovation This concept has been popular in the software world for many years This book is intended for a wide variety of audiences including students of the fine arts middle and senior high school students engineering design students and practicing scientists and engineers To meet this wide audience the book has been divided into sections to satisfy the need of each reader The book contains many software and hardware examples to assist the reader in developing a wide variety of systems The book covers two different Arduino products the Arduino UNO R3 equipped with the Atmel ATmega328 and the Arduino Mega 2560 equipped with the Atmel ATmega2560 The third edition has been updated with the latest on these two processing boards changes to the Arduino Development Environment and multiple extended examples

*The Official Raspberry Pi Projects Book Volume 5* The Makers of The MagPi magazine, 2019-11-01 The Official Raspberry Pi projects book returns with inspirational projects detailed step by step guides and product reviews based around the phenomenon that is the Raspberry Pi See why educators and makers adore the credit card sized computer that can be used to make robots retro games consoles and even art In this volume of The Official Raspberry Pi Projects Book you'll Get involved with the amazing and very active Raspberry Pi community Be inspired by incredible projects made by other people

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**Arduino The Best 130 Projects** Mehmet AVCU,2023-06-25 **Arduino The Best 130 Projects**      **Robot 2023: Sixth Iberian Robotics Conference** Lino Marques,Cristina Santos,José Luís Lima,Danilo Tardioli,Manuel Ferre,2024-04-26 This book contains a selection of papers accepted for presentation and discussion at ROBOT2023 the Sixth Iberian Robotics Conference held in the University of Coimbra Coimbra Portugal during November 22nd 24th 2023 ROBOT2023 is part of a series of conferences that are jointly organized by Sociedade Portuguesa de Rob tica SPR Portuguese Society for Robotics and by Sociedad Espa ola para la Investigaci n y Desarrollo en Rob tica SEIDROB Spanish Society for Research and Development in Robotics These conferences now occurring with a yearly periodicity provide a forum to roboticists mostly from Iberia but also from other parts of the world to present and discuss their research results new developments and applications in the field of Robotics The volume 1 of this book contains 45 papers addressing fundamental aspects of mobile robotics and robot manipulation while volume 2 contains 45 papers covering the application of robotics in different domains and environments      **Robot Building for Beginners** Cathan Cook,2008-01-01 Learning robotics by yourself isnt easy but it helps when the encouragement comes from an expert whos spent years in the field Not only does author David Cook assist you in understanding the component parts of robot development but he also presents valuable techniques that prepare you to make new discoveries on your own Cook begins with the anatomy of a homemade robot and gives you the best advice on how to proceed successfully General sources for tools and parts are provided in a consolidated list and specific parts are recommended throughout the book Also basic safety precautions and essential measuring and numbering systems are promoted throughout Specific tools and parts covered include digital multimeters motors wheels resistors LEDs photoresistors transistors chips gears nut drivers batteries and more **Robot Building for Beginners** is an inspiring book that provides an essential base of practical knowledge for anyone getting started in amateur robotics      **Arduino The Best 140 Projects** Mehmet AVCU,2023-06-25 **Arduino The Best 140 Projects**      **Arduino The Best 100 Projects** Mehmet AVCU,2023-06-25 **Arduino The Best 100 Projects**      **Arduino The Best 110 Projects** Mehmet AVCU,2023-06-25 **Arduino The Best 110 Projects**      **JunkBots, Bugbots, and Bots on Wheels: Building Simple Robots With BEAM Technology** Dave Hrynkiw,David Hrynkiw,Mark W. Tilden,Mark Tilden,2002-10-18 From the publishers of BattleBots The Official Guide comes this do it yourself guide to BEAM Biology Electronics Aesthetics Mechanics robots They re cheap simple and can be

built by beginners in just a few hours with help from this expert guide complete with full color photos Get ready for some dumpster diving      *Proceedings of TEEM 2023* José Alexandre de Carvalho Gonçalves, José Luís Sousa de Magalhães Lima, João Paulo Coelho, Francisco José García-Peñalvo, Alicia García-Holgado, 2024-08-04 This proceedings volume presents outstanding advances with a multidisciplinary perspective in the technological ecosystems that support Knowledge Society building and development With its learning technology based focus using a transversal approach TEEM is divided into thematic and highly cohesive tracks each of which is oriented to a specific community of interest including researchers professionals and students Informatics and Education are the central issues in the conference tracks including broad scope research areas such as Educational Assessment and Orientation Human Computer Interaction eLearning Computers in Education Communication Media and Education Medicine and Education Learning Analytics Engineering Education Robotics in Education Mechatronics Diversity in Education Gamification and Games for Learning

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