

Line Follower Robot Project Circuit

M Walker

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 a built 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 Tyaqi, 2021-09-08 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 Control Engineering Theory and Applications Jahangir Alam, Guoging 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 nonlinarity 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 The 8th International Conference on Advanced Machine Learning and Technologies and Applications technology (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 **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 is Interface different sensors with the Intel Edison Build a home automation system using MQTT

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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 Arduino The Best 130 Projects Mehmet AVCU, 2023-06-25 Arduino The Best 130 Projects **The Best 100 Projects** Mehmet AVCU,2023-06-25 Arduino The Best 100 Projects **Arduino The Best 140 Projects** Mehmet AVCU,2023-06-25 Arduino The Best 140 Projects 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 Learn how to make with your Raspberry Pi with our tutorials Find out about the top kits and accessories for your Pi projects And much much more If this is your first time using a Raspberry Pi you ll also find some very helpful guides to get you started with your Raspberry Pi journey With millions of Raspberry Pi boards out in the wild that s millions more people getting into digital making and turning their dreams into a Pi

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