Line follower Robot Using Arduino

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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 **Enabling Healthcare 4.0 for Pandemics** Abhinav Juneja,Vikram Bali,Sapna Juneja,Vishal Jain,Prashant Tyagi,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 **Intelligent Control, Robotics, and Industrial Automation** Ishwar Bhiradi,Jose Machado,2026-02-09 This volume comprises peer reviewed proceedings of the International Conference on Robotics Control Automation and Artificial Intelligence RCAAI 2024 It aims to provide a broad spectrum picture of the state of art research and development in the areas of intelligent control the Internet of Things machine vision cybersecurity robotics circuits and sensors among others This volume will provide a valuable resource for those in academia and industry *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 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 technology *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

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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 *Microelectronics for All* Bob Campbell,Robin Millar,1985 **Computer Education** ,1983 **Robot Builder's Bonanza, 4th Edition** Gordon McComb,2011-05-23 The Bestselling Robotics Book Now with New Projects and Online Tools Amazing should be required reading for any budding robot builder GeekDad Wired com Have fun while learning how to design construct and use small robots This richly illustrated guide offers everything you need to know to construct sophisticated fully autonomous robots that can be programmed from your computer Fully updated with the latest technologies and techniques Robot Builder s Bonanza Fourth Edition includes step by step plans that take you from building basic motorized platforms to giving the machine a brain and teaching it to walk talk and obey commands This robot builder s paradise is packed with more than 100 affordable projects including 10 completely new robot designs The projects are modular and can be combined to create a variety of highly intelligent and workable robots of all shapes and sizes Mix and match the projects to develop your own unique creations The only limit is your imagination Robot Builder s Bonanza Fourth Edition covers Parts materials and tools Building motorized wooden plastic and metal platforms Rapid prototyping methods Drafting bots with computer aided design Constructing high tech robots from toys Building bots from found parts Power motors and locomotion Robots with wheels tracks and legs Constructing robotic arms and grippers Robot electronics and circuit making Computers and electronic control Microcontrollers Arduino PICAXE and the BASIC stamp Remote control systems Sensors navigation and visual feedback Robot vision via proximity light and distance New FREE online content at www robotoid com My First Robot tutorial lessons Project parts finder Animated interactive learning tools How to videos robot e plans bonus articles links and more Plus go to www mhprofessional com rbb4 for Downloadable programs RBB app notes Bonus chapters Make Great Stuff TAB an imprint of McGraw Hill Professional is a leading publisher of DIY technology books for makers hackers and electronics hobbyists *International Encyclopedia of Robotics* ,1988 **Robot Programming** Joe Jones,Daniel Roth,2004-01-02 Publisher s Note Products purchased from Third Party sellers are not guaranteed by the publisher for quality authenticity or access to any online entitlements included with the product MASTER ROBOT PROGRAMMING ITH YOUR OWN FREE VIRTUAL BOT This ingenious book Web site partnership teaches the skills you need to program a robot and gives you a virtual robot waiting online to perform your commands and test your

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