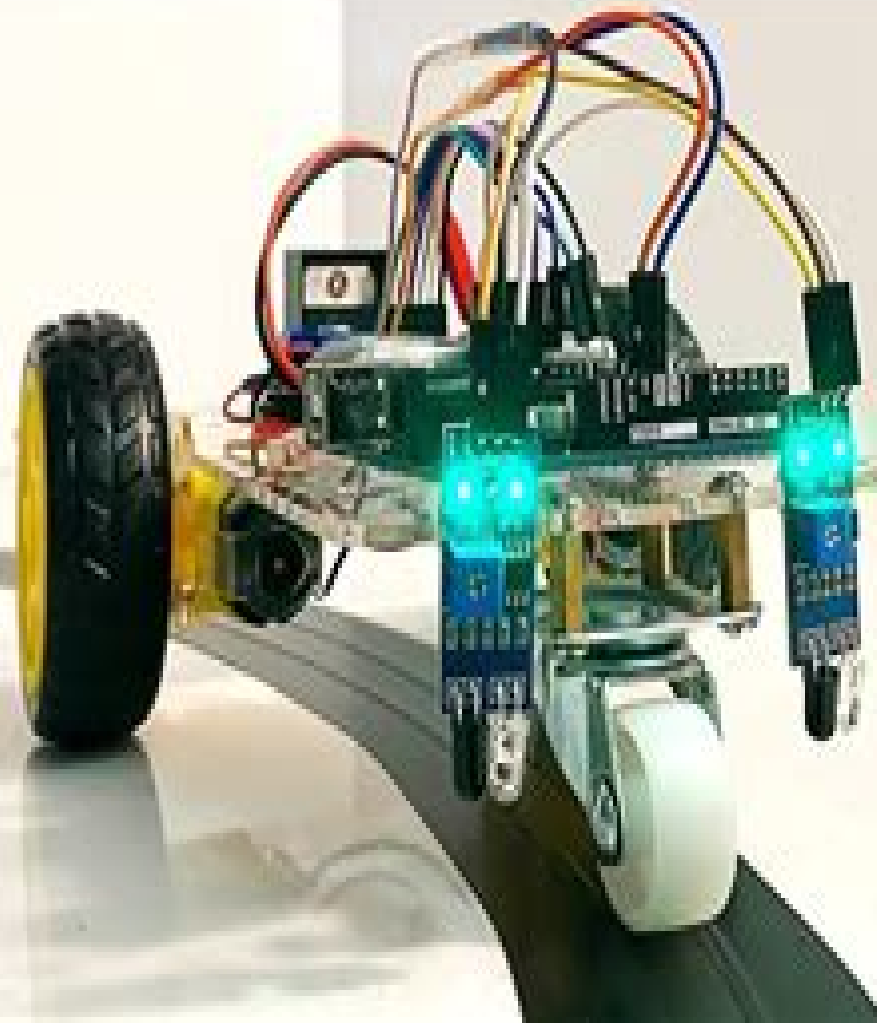


LINE FOLLOWER ROBOT



Line Follower Robot Project Report Details

Gregory Dudek, Michael Jenkin



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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.

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Designing, Constructing, and Programming Robots for Learning Eteokleous, Nikleia, Nisiforou, Efi, 2021-11-19 The field of robotics in a classroom context has seen an increase in global momentum recently because of its positive contributions in the teaching of science technology engineering mathematics STEM and beyond. It is argued that when robotics and programming are integrated in developmentally appropriate ways cognitive skill development beyond STEM can be achieved. The development of educational robotics has presented a plethora of ways in which students can be assisted in the classroom. Designing Constructing and Programming Robots for Learning highlights the importance of integrating robotics in educational practice and presents various ways for how it can be achieved. It further explains how 21st century skills and life skills can be developed through the hands on experience of educational robotics. Covering topics such as computational thinking social

skill enhancement and teacher training this text is an essential resource for engineers educational software developers teachers professors instructors researchers faculty leaders in educational fields students and academicians Scientific and Technical Aerospace Reports ,1995 **Computational Principles of Mobile Robotics** Gregory Dudek,Michael Jenkin,2024-02-08 Now in its third edition this textbook is a comprehensive introduction to the multidisciplinary field of mobile robotics which lies at the intersection of artificial intelligence computational vision and traditional robotics Written for advanced undergraduates and graduate students in computer science and engineering the book covers algorithms for a range of strategies for locomotion sensing and reasoning The new edition includes recent advances in robotics and intelligent machines including coverage of human robot interaction robot ethics and the application of advanced AI techniques to end to end robot control and specific computational tasks This book also provides support for a number of algorithms using ROS 2 and includes a review of critical mathematical material and an extensive list of sample problems Researchers as well as students in the field of mobile robotics will appreciate this comprehensive treatment of state of the art methods and key technologies International Encyclopedia of Robotics ,1988 *Neuromorphic Engineering Systems and Applications* André van Schaik,Tobi Delbruck,Jennifer Hasler,2015-07-05 Neuromorphic engineering has just reached its 25th year as a discipline In the first two decades neuromorphic engineers focused on building models of sensors such as silicon cochleas and retinas and building blocks such as silicon neurons and synapses These designs have honed our skills in implementing sensors and neural networks in VLSI using analog and mixed mode circuits Over the last decade the address event representation has been used to interface devices and computers from different designers and even different groups This facility has been essential for our ability to combine sensors neural networks and actuators into neuromorphic systems More recently several big projects have emerged to build very large scale neuromorphic systems The Telluride Neuromorphic Engineering Workshop since 1994 and the CapoCaccia Cognitive Neuromorphic Engineering Workshop since 2009 have been instrumental not only in creating a strongly connected research community but also in introducing different groups to each other s hardware Many neuromorphic systems are first created at one of these workshops With this special research topic we showcase the state of the art in neuromorphic systems Monthly Catalogue, United States Public Documents ,1995

Mechatronic Futures Peter Hehenberger,David Bradley,2016-06-10 Offering a comprehensive overview of the challenges risks and options facing the future of mechatronics this book provides insights into how these issues are currently assessed and managed Building on the previously published book *Mechatronics in Action* it identifies and discusses the key issues likely to impact on future mechatronic systems It supports mechatronics practitioners in identifying key areas in design modeling and technology and places these in the wider context of concepts such as cyber physical systems and the Internet of Things For educators it considers the potential effects of developments in these areas on mechatronic course design and ways of integrating these Written by experts in the field it explores topics including systems integration design modeling

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