

Line Tracer Robot Project Report

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Line Tracer Robot Project Report:

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 project 5 2 1 1 Research and definition for the project 5 2 1 2 Resources management 7 2 2 Project time plan 8 3 Design of the robot9 3 1Design of the electronic hardware11 3 1 1Sensors OPD 70911 3 1 2Comparator **Scientific and Technical** Aerospace Reports ,1994 Congressional Record United States. Congress, 2009 The Congressional Record is the official record of the proceedings and debates of the United States Congress It is published daily when Congress is in session The Congressional Record began publication in 1873 Debates for sessions prior to 1873 are recorded in The Debates and Proceedings in the Congress of the United States 1789 1824 the Register of Debates in Congress 1824 1837 and the Congressional Globe 1833 1873 Government Reports Announcements & Index ,1995 **Summaries of Reports of** the Electrotechnical Laboratory Denki Shikenjo (Japan),1998 Minutes of the ... Session of the North Indiana Annual Conference of the Methodist Episcopal Church Methodist Episcopal Church. NORTH INDIANA ANNUAL CONFERENCE..1921 Journals of the ... Legislature of the State of Arizona Arizona. Legislature, 1913 Annual Reports

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