



Microcontroller Based Assembly Check and Built-In Self Test

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ABSTRACT: In present large scale industries where production per day is of the orders of few hundreds to few thousands, it is difficult to check whether each component assembled on PCB (Printed Circuit Board) is in the proper position or not and also to check whether all the designed components are present on the board. If the manual method is used to perform this process, production cost increases and decreases the rate of production. In manual method an electronic engineer or technician who has knowledge of all electronic components will check component by component and will send the tested board to next section if everything is correct else it will be rejected which is time consuming. A solution to solve this problem is to replace the current system with a cost of around 2 to 3crore which is used to design an electronic system which tests all the sections of the board and will give clear report of all assembled components at cost of 20 to 25 thousand rupees (low cost systems), which will be helpful for small scale industries. If one or more components are not present, it will automatically detect and discard it as defective PCB and if all the designed components are present it will display the details of component checked and their position.

KEYWORDS: Printed Circuit Board (PCB), Assembly Check, Electronic components, MPLAB IDE, Embedded system.

INTRODUCTION

The novel idea of this project is to achieve higher production rate in a large scale industry by using this embedded system. This project is basically a microcontroller based design used to check the assembly of all the components in a PCB (Printed Circuit Board). When all the components are present then it continues to check the voltages in different sections of the board and gives decision about the working performance of each section of the circuit under test.

It consists of a platform on which the assembled board is placed in specific position. Once the system is switched on, it starts checking the components one by one and display the states of operation. When the specific component is not found in the specific position, it will display the name of components and their specifications on the display unit and rejects the board since it cannot be sent to next section for testing.

Three stepper motors are used in the project to check position of each component on the board. First motor move in X-direction and second will move in Y-direction and third motor in Z-direction is used to check the components. The speed, direction of movement and the displacement of all the motors depends on the values specified in the software. Since stepper motor requires high current for its operation Darlington amplifiers are used. The power supply unit consisting step down transformer, rectifier, filter and regulator IC (Integrated Circuit) is used to supply different DC voltages to different sections of the circuit.

The MPLAB IDE (Microprocessor Lab Integrated Development Environment) is used in this project, a window based platform for designing the software. The program is simulated in the system using simulator and then is tested with the hardware modules.

II. LITERATURE SURVEY

Printed circuit boards (PCBs) testing is becoming more expensive and difficult due to the complexity of PCBs design. The common methods for diagnosing PCBs still suffering from many difficulties; it needs long time, a lot of manual

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Table of Contents Transputers 94 Advanced Resear

1. Understanding the eBook Transputers 94 Advanced Resear
 - The Rise of Digital Reading Transputers 94 Advanced Resear
 - Advantages of eBooks Over Traditional Books
2. Identifying Transputers 94 Advanced Resear
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Transputers 94 Advanced Resear
 - User-Friendly Interface
4. Exploring eBook Recommendations from Transputers 94 Advanced Resear
 - Personalized Recommendations

-
- Transputers 94 Advanced Resear User Reviews and Ratings
 - Transputers 94 Advanced Resear and Bestseller Lists
5. Accessing Transputers 94 Advanced Resear Free and Paid eBooks
 - Transputers 94 Advanced Resear Public Domain eBooks
 - Transputers 94 Advanced Resear eBook Subscription Services
 - Transputers 94 Advanced Resear Budget-Friendly Options
 6. Navigating Transputers 94 Advanced Resear eBook Formats
 - ePub, PDF, MOBI, and More
 - Transputers 94 Advanced Resear Compatibility with Devices
 - Transputers 94 Advanced Resear Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Transputers 94 Advanced Resear
 - Highlighting and Note-Taking Transputers 94 Advanced Resear
 - Interactive Elements Transputers 94 Advanced Resear
 8. Staying Engaged with Transputers 94 Advanced Resear
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Transputers 94 Advanced Resear
 9. Balancing eBooks and Physical Books Transputers 94 Advanced Resear
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Transputers 94 Advanced Resear
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Transputers 94 Advanced Resear
 - Setting Reading Goals Transputers 94 Advanced Resear
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Transputers 94 Advanced Resear
 - Fact-Checking eBook Content of Transputers 94 Advanced Resear

-
- Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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