

Pic-A-Color Game

Prepared by: Lee Siew Ping

ABSTRACT

This report is going to introduce and give a description of my project which is the PIC-A-COLOR game. It is an electronic version of the game which is emulated and reconstructs a popular board game called Mastermind using a PIC microcontroller. Since we know that playing game is an entertainment that needed by people that can improve our Intelligence quotient (I.Q). My project which named PIC-A-COLOR GAME is exactly a game that can acts like a riddle and also an intelligence test to test our norms of IQ.

Microcontroller is a programmable integrated device that includes microprocessor, memory, and I/O signal on a single chip, which has computing, decision-making or controlling capability similar to that of the central processing unit (CPU). PIC microcontroller is a type of microcontroller which is manufactured by Microchip Company. PIC16F84A is a new version of PIC16F84, which has a high performance Reduced Instruction-Set Computing. It contains 18 input/output lines and provided with two packages.

This project report is divided into several parts. The title, acknowledgement, declaration and abstract are initial part that required by this report. The main body part about the project should give the reader realized about my project's product. This is included the introduction, construction and analysis of my project which is explain the whole concept operating and process of my project. The schematic diagram, PCB design layout and the block diagram can found in construction part and the analysis of the problem as well as the changes occurred is included in analysis part.

At the last part, there is a short conclusion and the list of references and the appendices which are related to my project. The appendix section is enable to reader to further understanding and realized the technical specification of the PIC and datasheet of the related components.