

# INTERACTIVE KID'S RHYME

AHMAD NADZRIN BIN MOHAMMAD NIZAM

MUHAMMAD RIDHUAN BIN HASHIM

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FACULTY OF ELECTRICAL ENGINEERING  
UNIVERSITI TEKNOLOGI MARA  
MALAYSIA

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## ABSTRACT

Final year project is one of the courses under Faculty of Electrical Engineering, Universiti of Technology Mara (UiTM). The main aim is to give the good experiences to the student, so that they could apply and practice what have been learnt during class and in the laboratory.

Each of students has to complete this final year project. In the end of semester, each students must presents their projects and submit their full report.

Moreover, this report also demonstrates all data involved during my final year project for 2 semesters. In addition, the benefits, problems and recommendations regarding this final year project are also discussed in this report.

Throughout the period, we have gained a lot of technical and theory experience about our final year project. This final year project gives us a great exposure with the real situations. Here, we have learn a lot of new things such as soldering and building the coding for microcontroller.

Apart from that, during this final year project, this course has given me the most beneficial and valuable knowledge and experience in terms of software, hardware and communication skill during presentation.

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## **CHAPTER 1**

### **INTRODUCTION**

#### **1.1. Introduction**

A toy is an object for a child to play with in the early childhood development. Interactive Kid's Rhyme project is about to modified dot matrix display hardware for an interactive kid's rhyme toy application. This project is basically to impress children in designing toys that is attractive. In this day and age, children prefer something simple and interesting. For example, a lighted swords and toy phones that emit a sound when the phone keyboard is pressed. With the use of LCD and LEDs, the toy will be much attractive. Other than that, the price of the toy is not reasonable based on their quality especially if the toy is included with sound. Toys like this can bring in a good income if sold in the market.

#### **1.2. Problem Statement**

Nowadays, kid's toys look dull and not attractive. This project is about to make a toy that is very interesting to children with the use of LCD, LEDs and buzzer. The toy must look colorful because colors can attract the children.

Other than that, the price of the toys is expensive and not reasonable based on the toy's quality. The toy which is usually made by plastic material can cost for more than