

OPTICAL COUNTING SYSTEM

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ABSTRACT

The title I have selected for my final project is about the “Optical Counting System”. Thus, an Optical counting system with conveyer belt is designed to save the usage of human energy and to save the time. This project takes charge of counting the object. When an object pass through the sensor, the counter incremented by one. IR sensors are placed beside the conveyer belt used to detect the object. The output from this sensor sent to the PIC16F887A microcontroller which then controls the numbers of object are displayed using a seven segment display.

This Project Report contains 4 chapters to be discussed.

➤ Chapter 1

The first chapter gives the introduction and overview of the project. This is for better understanding on what this project an appendix in the end of the project. Brief description of each chapter is as follows.

➤ Chapter 2

This chapter basically consists of the construction or the procedures carried throughout the project. It also shows the circuit diagram and the essential electronic components that make the project work are introduced with description.

➤ Chapter 3

The results are covered in chapter 3. The simple analysis and also the problems encountered throughout the project. This chapter aided with pictures and diagram that gives better view of the final outcome.

➤ Chapter 4

These project enclosed by conclusion which summarizes the technical conclusions drawn from the work done.