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FINAL REPORT OF DIPLOMA PROJECT

AUTOMATIC ROOM POWER CONTROL

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ABSTRACT

The Automatic Room Control is one of the instrument that can works as a sensor not a common sensor but the sensor that can sense person . This sensor can be apply to become many creative design like we are doing right now. We manage to design a circuit that can detect human by pulses and drive the other component. Our project is used to sense person and can make changes the power system whether the power system will switch ON and OFF

We have design our project to detect person enter the room, the power system in the room will automatically turn on. But in our case we have change the power system to a simple component which is BULB. This is because the power system is refer to electrical connection for whole appliances in one place such as House, Bank and Library.

When one person leaving from the room the Bulb will turn off. The output are shown by LED. When the person enter the room the LED will show green light and red light is refer to a person leave the room . These output are simultaneously applied to two counters. One of the counters will count as +1, +2, +3 for the peoples that enter the room and the other will count as -1, -2, -3 for the people that came out from the room.

We choose this project because it is very challenging. This is because this project are not focusing on electronic component only but others component such as plug, bulb and adapter. Our target is to make this project more creative and nice to see.

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1.1 INTRODUCTION

Basically, this project are some of the latest project that been chosen after all the research that we have done to get the suitable project for our group. This project operate like a switch. Means that when someone push the button the circuit may operate. But in our project we use LDR which act like a sensor. This project use two LDR as a sensor to detect a person or something.

Some major stage are important to make this circuit sucessfully operated, such as sensor, counter, Integrated Circuit which some act like memory and triggering mode.

The important component is IC, which are connected to all component. This very sensitive component can easily broken if the conenction are not in the right place. Some variable component that are been added is LED or buzzer which can show light colour and sound effect. This help us to know whether the project are working or not working.

This project can detect someone that enter a room and its automatically can operate the room electrical system. As I say above, the circuit operate after the sensor sense its target.

So as for us this project are very unique an we hope some information that we write in the next page can satisfy your taste.