

# **AUTOMATIC ROOM POWER CONTROL SYSTEM**

Prepared by: Lee Chau Siang

## **ABSTRACT**

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The title of this project is 'Automatic Room Power Control System'. The objective of doing this project is helping the users to automatically switch on and off the lights in the room. At the same time, a speech will come out when people entering or leaving the room. This project makes the users more convenience and help users to save electricity, energy and their time also.

This project report contains the description about the construction and operation of the circuits. The main electronic components and integrated circuits (ICs) of every circuit are listed out in detail in this project report also.

Besides that, the block diagram and the 3 circuit diagram of this project (automatic room power control circuit, infrared sensor circuit and speech IC circuit) are provided in order to let the readers more understanding about the operation of this project. The operation of every circuit diagrams are analyzed and showed in this project report also.

Moreover, the printed circuit board (PCB) layouts of every circuit in this project and some photographs are attached in this project report in order to let the readers to understand the procedures for constructed this project and the outcome of the project. Problems and solutions are stated in short to avoid the readers from making the same mistakes. Finally, data sheets of every main electronic components and integrated circuits (ICs) are provided in order to let the readers more understanding of the usages and characteristic of every main electronic and ICs used for constructed this project.