Research Title: Intelligent Light Control using Smartphone

Mr. Sorayut   Glomglome

Ms. Pitcha   Rungsawang

Ms. Sasiphat   Kanjanathaveephong

Asst. Prof. Charoen Vongchumyen

Faculty: Engineering   **Department:** Computer Engineering

ABSTRACT

Our project is development of wireless communication systems apply to create an intelligent light bulb. Control the bulb through application using Smartphone. Many functions of an intelligent light bulb make it different from the simple light. All functions are changing the various color of light and also dimming out for each selected color. These functions will save the energy and your money. The communication system is using ZigBee protocol for sending and receiving data between gateway and the bulb. Gateway is a middle device for encapsulation and de capsulation. It also connects to the internet. The user interface of mobile application is easy to use, secure and moreover, it would be developed to be a usable application which is a good product for marketing.

Keyword: Wireless communication, Zigbee, iOS software development, Microcontroller