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REPORT OF DIPLOMA PROJECT
(KEU 380)

**THE MULTI SWITCHES CONTROLLER
BETWEEN DIFFERENT SENSORS**

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ABSTRACT

Smart home is house that gives many benefits to us. There are many devices that we must use for completing one smart house such as alarm sensor, automatic cotton for window, heat sensor and etc. In this project we choose to built one device which can control and adjust the other devices either sensor devices or common devices from our controller device.

The controller main function is to mention us either a devices that use in the smart house is functioning or not functioning and active or not active. The controller has many input and switch which will be connected to other devices. From that switch we can switch on or switch off other devices that connect to the controller.

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INTRODUCTION

The multi switch controller is one device that created like a block model that usually located at near the front door (exit way). The controller function is to monitor condition of basic devices like lamp, fan and sensor devices like a smoke detector, a burglar alarm whether these devices is functioning or not functioning and active or not active.

Furthermore, the controller have set and reset button which use for setting the devices to an initial condition. For example, if the house detected someone is preaching the house, a burglar alarm will be activated .So, the controller will be reset the alarm by push the reset button. After that the burglar alarm will be activate in an initial condition.

Beside that, the controller also has a sensitivity adjuster for the devices that connect to this controller. The function of the adjuster is to adjust the sensitivity of the devices. If a heat sensor is connecting to the controller, the adjuster will be set the range of heat for the sensor and the sensor will be activate at the range that we set.

The controller has two main circuit:

1. LED light flasher

The led light flasher function is to give a signal whether a lamp or fan in our house is function or not function. The LED will be lightning if a lamp or fan that connected to the controller is function.