

Smart Window Panel

Prepared by: Ku Jo Ling

ABSTRACT

Windows form an integral part of our daily life, whereby it's opened and closed almost every day. We need the windows to be opened for breeze of fresh air into our home. But during rainy days we keep them closed to avoid the water splash. And we also keep windows closed during the night or when we're out of the house. Yet, most of the time, we will forget to close it when we're in or out of the house and keep worrying about it. This project was undertaken to get to the bottom of this problem. A window should be designed in the way that it can close automatically when it rains and also during night time.

As a result, a smart panel window was designed to achieve this necessity. This window is controlled by two sensors in which one of the sensors will be used to sense the rain and the other will be used to sense the day and night time. When the rain drops on the sensor or when the sensor sense the night time, the sensors will allow the current to pass through the motor and the motor will work to close the window. Once the window touches a switch which located at the frame, the current will be automatically stopped.

Apparently, when the window is completely closed, the user just need to press a button on the side of the window frame, in order to open it. The pressed button will allow the current flow through to the motor and the motor will start functioning again. Thus with this simple idea, the designed smart panel window is capable of eradicating our worries and also might reduce burglary into our houses.