ABSTRACT

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DESIGN AND BUILD AUTOMATIC WINDOWS USING LIGHT SENSOR AND RAINDROP SENSOR BASED ON ARDUINO UNO

In modern times like today, technology is developing very fast. The development of this technology is very beneficial for humans in every field. The technology that is very helpful in human life is the automation system. The system is a combination of several components that work together to perform a certain goal. The system is not limited to physical systems only. This automation is a goal to be achieved in system control which aims to facilitate human work. This research begins with the design of the tool, which in its manufacture uses light sensors, rain sensors, LEDs, and servo motors. Furthermore, designing and assembling tools to determine the condition of the tool is active and can be in accordance with its use. Arduino in this project is integrated with a light sensor and a rain sensor as input to control the output window that opens and closes automatically. In the morning, the light sensor will detect sunlight and the window will open automatically and vice versa, and when it rains the window will close automatically. So that the work that has been done manually can be done automatically.