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Abstract— In this hardware project, we designed and developed an automatic window blind system using Avr-based control circuitry. The system is designed to automate the opening and closing of window blinds based on the 'ambient light level' in the room. The system uses a 'light sensor(LDR)' to detect the ambient light level and process the sensor readings and control the motor that opens and closes the blinds. The motor is connected to the blinds through a set of pulleys, and the opening and closing of the blinds are controlled through the use of a motor driver circuit'(TB66).

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Abstract— In this hardware project, we designed and developed an automatic window blind system using Avr-based control circuitry. The system is designed to automatically control the opening and closing of window blinds based on the 'ambient light level' in the room. The system uses a 'light sensor(LDR)' to detect the ambient light level and the 'AVR' to process the sensor readings and control the motor that opens and closes the blinds. The motor is connected to the blinds through a set of pulleys, and the opening and closing of the blinds are controlled through the use of a motor driver circuit'(TB66)'.

The automatic window blind system has several advantages over traditional manual blinds, including "improved energy efficiency, convenience, and increased privacy." The system is easy to install and can be integrated with a variety of different window blind designs.

Overall, the automatic window blind system offers a reliable and cost-effective solution for homeowners looking to improve their homes' energy efficiency and convenience

I. INTRODUCTION

The use of automatic window blinds has become increasingly popular in recent years due to their ability to improve energy efficiency and provide a more convenient and comfortable living environment. These "automated systems" use sensors and control circuitry to regulate the position of the blinds based on the ambient light level in the room, providing a more efficient and effective solution for controlling the amount of light and heat that enters a room.

In this project, we designed and developed an automatic window blind system using 'AVR- based control circuitry. The system is designed to automatically adjust the position of the window blinds based on the ambient light level in the room, providing a more energy-efficient and

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V. ALGORITHM

Step 1)Initialize the system by setting up the Arduino board and connecting the motor driver, motor, and LDR sensor. Step 2)Set the motor driver pins as output pins and the LDR sensor pin as an input pin.

Step 3)Set a threshold value for the LDR sensor. This threshold value will determine when the blinds should open or close.

Step 4)Read the value of the LDR sensor.

Step 5)If the value is below the threshold value, it means the room is too dark. In this case, send a signal to the motor driver to close the blinds.

Step 6)If the value is above the threshold value, it means the room is too bright. In this case, send a signal to the motor driver to open the blinds

Step 7)Wait for a few seconds before reading the value of the LDR sensor again.

Step 8)Repeat steps 4 to 7 continuously.

VI. FLOW CHART

VII. SOFTWARES REQUIREMENT

1. Proteus

2. Arduino UNO 3. Progisp

VIII.COMPONENTS REQUIREMENT A)Arduino:-

1. Arduino Uno R3

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