Project name

Automatic Vertical Roller Blind Making with Arduino

The subject of the project

Thanks to the production of automatic vertical roller blinds with Arduino, we will be able to open and close the curtain with a command without leaving our seat.

Working Logic of the Project

There are NRF modules in the receiver and transmitter parts, as well as a stepper motor in the receiver part to rotate the curtain. We'll start by untying the pins on the modules and cards. After solving the pins, we will make the connections of the cards with each other. Then we will make NRF and Arduino connections. When these connections are made in the box where the data to be considered in this section will be placed, all the components should fit. We have to keep the cable connections short and ensure that the two cards are placed in the box overlapping. There is a female jack that needs to be placed in the box. After we put this jack Arduino and NRF on top of each other, we will put the jack on its side. Then we need to make the push button rest comfortably in the lower part of the box on her legs. After the NRF connections are made, we will connect the buttons on Arduino. After connecting the buttons on Arduino, we will connect the cables on the (+) and (-) signs on the jack. Until now, we will place the transmitter module in the box. We will plug in the 5volt adapter and observe if there is any trouble. The only difference between the receiver box and the transmitter box is how the stepper motor on the transmitter part is connected.

How To Develop More

A light sensor is given to the curtain, the curtain opens and closes according to the command given to the light, or it can be set to close the vertical roller blind at night and open it during the day.

Cost :150-200₺

GitHub Account

https://github.com/Gizem928

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