**ABSTRACT** 

A rolling door garage door is a type of garage door that has a way of working rolled

up to open it and pulled down to close. Which can be used in homes, shops, and factories.

Along with the times it takes a tool that moves the rolling door automatically.

In this Level project, an automatic rolling door system has been realized using visible

light communication as the transmission medium, for this system component uses LED lights

and solar panels to open, stop and close an automatic rolling door in outdoor and indoor

conditions. However, in the previous level project, the title Implementation of VLC-Based

Home Automation Devices on the Receiver Side was shown on the results of the data using a

photodiode receiving data up to a distance of 115 cm in conditions outside the garage in

conditions in the garage receiving 125 cm.

From the results of tests that have been carried out, it shows that the rolling door

automatically receives data using solar panels in outdoor conditions at a maximum distance

of data reception as far as 20 cm. Meanwhile, in indoor conditions, the maximum distance for

data reception is 30 cm.

Keywords: Receiver, Light Transmission, automatic garage

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