

Design, Development and Evaluation of Smart Lighting System for Physically Challenged Person

Jerlou B. Sal

Faculty, Electrical Technology,

College of Technology, Surigao Del Norte State University, Surigao City, Philippines

Abstract: *This study determined the effectiveness of the propose project smart home lighting system for physically disabled person. Specifically, it deals the main usage of the proposed project, its functionality, applicability, durability and safety and how this project works properly in other to help people as a new innovation. The project is tested out of 20 respondents that has knowledge regarding electricity, enough to understand the flow of the project its material used, functions, usage and how it works. The proposed project has a very good application. It helps physically disabled person to use the device even if they are alone without the help of others. Device allow users can customize lighting environment.*

The conclusions are drawn based on the findings of the study. Enhanced control smart lighting systems provide individuals with physical disabilities the ability to control their lights using voice commands or mobile applications. Energy efficiency often incorporate energy-saving features, such as LED bulbs and automated scheduling. Physically impaired person this device had a very important usage by providing them with convenient and accessible control over their lighting environment. Future researchers are encouraged to conduct studies similar to the present investigation in their domain school..

Keywords: Smart Lighting, Design and Development, Automation, Controller System