EN1070 Electronic Product Design and Manufacture

Project Proposal -

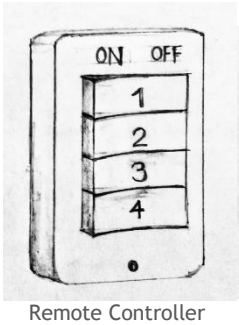
Bluetooth Based Remote Light Controlling System

Team Name – Good Game

Name	Index No.
Weerasinghe K.N.	190672T
Silva G.B.N.M.	190592X
Ayodya W.K.H.	190065K
Epa Y.H.A.	190166V

Structure of the Product

Initially, we will design a bulb holder with a P.C.B. inside containing the receiver and a separate remote with a P.C.B. inside carrying the transmitter; then after that, develop those circuits into sets of 4-7 (we plan to survey this matter) so that the customer can control several lights with one controller. Given sketches contain a glimpse of the end product.



Remote Controller


Holder

Main Problem

Having to walk towards the switch to turn off the lights is addressed by this product.

Benefits End Users Get from the Product

Our target is to make the remotes so that functions are operational within 10-15 mitres. Thus, one of the significant advantages of this product is that disabled people don't have to keep someone near them to turn lights on and off.

Our Implementations So the Product Fits in the Market

Most of the products of this type in the current market work hand in hand with Google Home or Alexa and thus require an active internet connection. Plus, most of them are manufactured overseas. Our product uses Bluetooth technology so, doesn't an internet connection. We hope our product will be much cheaper, thus will be more affordable for users.

The Simplicity of the Product

Some of the products in the market require an operator to set up the system inside a house. Our product eliminates that requirement. (Buyer can setup the holder and bulb himself without any involvement of another party). Only numbers are contained in the remote so that an average human can figure out the process..

Cost

We estimated, one holder and a remote controller might cost approximately Rs.1000 at the end.