

**DESIGNING AND CONSTRUCTING A LIGHT CONTROL WITH THE
PURPOSE OF AESTHETIC AND ENERGY EFFICIENCY**

By

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STATEMENT BY THE AUTHOR

I hereby declare that this submission is my own work and to the best of my knowledge, it contains no material previously published or written by another person, nor material which to a substantial extent has been accepted for the award of any other degree or diploma at any educational institution, except where due acknowledgement is made in the thesis.

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ABSTRACT

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Reducing the energy consumption especially in terms of lighting currently has been a crucial aspect in the industry as well in the residential area. One of the ways to reduce the energy consumption is by controlling the brightness of LED which consumed every day. The main purpose of this thesis work is to build a light control system which able to control the brightness levels needs automatically as well as the color combination of LED in certain environment. Indirectly, the energy consumption from light will be reduced.

Keywords: Light Control, LED, Energy Efficient, Nuvoton Microcontroller, Light Sensing



DEDICATION

I dedicate this works for my family, friends, teachers, and to all the people who supported me and gave me the opportunity to learn.



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