

**UNIVERSITI TEKNOLOGI MARA**

**COST BENEFIT ANALYSIS OF  
LIGHTING RETROFIT AT A HOUSE**

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Dissertation submitted in partial fulfillment  
of the requirements for the degree of  
**Diploma**  
**(Mechanical Engineering)**

**College of Engineering**

**March 2022**

## **ACKNOWLEDGEMENT**

Firstly, I wish to thank God for giving me the opportunity to embark on my diploma and for completing this long and challenging journey successfully. My gratitude and thanks go to my supervisor, Mr. Muhammad Faiz Bin Mohd Mazelan

Finally, this dissertation is dedicated to my father and mother for the vision and determination to educate me. This piece of victory is dedicated to both of you. Alhamdulillah.

## **ABSTRACT**

The potential energy savings, life cycle cost analysis, and payback period of the lighting system at my house is presented in this paper. According to the survey results, fluorescent lamps account for 100% of the lighting system at my house. In terms of prospective energy savings, life cycle cost analysis, and payback duration, a cost benefit study of retrofitting with more efficient lighting systems was undertaken. On the basis of energy usage, a comparison of existing and retrofitting lighting systems is offered. Based on the findings, it can be inferred that using energy efficient lighting systems will save large amounts of energy and money while also lowering emissions indirectly.

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