

**UNIVERSITI TEKNOLOGI MARA
PERAK BRANCH**

SMART AUTOMATED CEILING

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Innovation project report submitted in partial fulfilment of the
requirements for the degree of
Bachelor of Science (Hons.) Construction Technology

Department of Built Environment & Technology Studies

August 2022

AUTHOR'S DECLARATION

I declare that the work in this innovation project report was carried out in accordance with the regulations of Universiti Teknologi MARA. It is original and is the results of my own work, unless otherwise indicated or acknowledged as referenced work. This topic has not been submitted to any other academic institution or non-academic institution for any degree or qualification.

In the event that my innovation project report, be found to violate the conditions mentioned above, I voluntarily waive the right of conferment of my degree and agree be subjected to the disciplinary rules and regulations of Universiti Teknologi MARA.

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ACKNOWLEDGMENT

First and foremost, praises and thanks to the God, the Almighty, for His showers of blessing throughout my research work for the subject (BCT 654) Innovation Project report to complete the report successfully.

I would like to express my deep and sincere gratitude to everyone who made it possible for me to complete my research report, particularly Dr Asmat Ismail, my respected lecturer and Ts. Mohd Najib Abd Rashid my supervisor for their guidance, inspiration, and support during the report writing process. They have taught me the methodology to carry out the research and to present the research work as clear as possible. It was a great privilege and honor to work and study under their guidance.

Also, thank you to all of my classmates for their help and assistance in completing this proposal, as well as their encouragement and guidance that enable me to completing this proposal report within the time given.

Last but not least, thank you to my family, who have always been there for me emotionally, financially, physically, as well as spiritually.

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ABSTRACT

One of Malaysia's sectors with the fastest growth rates is the construction industry. To boost the use of environmentally friendly materials in the construction sector, green building is growing in popularity. Apart from that, a new concept innovation which is robotic technology known as Smart Automated Ceiling is presented in this research in order of installation and maintenance of ceiling in building campus. This research's objectives is to identify the current issues and problem of ceiling installation and maintenance, proposed new innovation product and suggest marketability potential of the proposed innovation product. The method used for development of this product included the literature review, desktop studies and Sketchup's application for the animation of the product. Development of the product in terms of the components and performance also been discussed in detail. Thus, with this product, hopefully can improve the building campus wellbeing and the installation and maintenance process will be done quickly.