

**UNIVERSITI TEKNOLOGI MARA  
PERAK BRANCH**

**ADJUSTABLE FAÇADE HANDLING TRACK**

**SUAIDAH SHIMA BINTI SHAHRIN**


**BSc**

**August 2021**

## 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.

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Name of Student : Suaidah Shima Binti Shahrin  
Student I.D. No : 2019695192  
Programme : Bachelor of Science (Hons.) Construction Technology  
Faculty : Architecture, Planning & Surveying  
Innovation Project Title : Adjustable Façade Handling Track  
Signature of Student : .....  
Date : **August** 2021

## ACKNOWLEDGEMENT

First and foremost, Alhamdulillah and praise to Allah, the Most Merciful and the Most Graceful for His showers of blessings throughout my degree report to complete successfully.

I would like to express my deep and sincere gratitude to my supervisor, Ts Dr. Hayroman Ahmad for encouraged me to pursue this project and providing invaluable guidance throughout this innovation project process. His dynamism, vision, sincerity and motivation have deeply inspired me. He has taught me to present the research work as clearly as possible. It was a great privilege and honor to work with and study under his guidance.

On the other hand, I would like to acknowledge the valuable input of Dr. Siti Akhtar Mahayuddin and Dr Asmat Ismail, who contributed to many discussions and lectures that helped to shape this project from the beginning of brainstorming ideas to the structural writing of this report. They has provided positive encouragement and a warm spirit to finish this innovation report.

In addition, I am extremely grateful to my parents for their love, prayers, caring and for supporting me financially and always give me moral support to finish this final report. Besides, I also express my thanks to my friends from class AP2566A especially Ni'matul, Syamimi, Auni and Aina for their motivation and moral supports throughout my online distance learning journey. They are being very helpful in giving opinions and guidance with open arms and It was a pleasure working with them.

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## **ABSTRACT**

Material handling refers to the delivery, movement, safety, storage, or control of materials. Today, Material handling been one of the most critical part on the high-rise construction. The aim of this study is to investigate the problem of handling façade on a high-rise building and to invent innovation product that are better and safer. The study adopts several data collection tools to collect data to gain reliable information on the innovation idea such as questionnaire survey and literature review from the primary and secondary data collection. The study found that current facade handling was having problem with wind sensibility and safety issue. From the result, an innovation idea of the Adjustable Façade Handling Track was created to encounter the problems identified that has been occurred during the façade handling work. Besides, the performances of the Adjustable Façade Handling Track were expected to provide better workability . However, it is recommended to improve the safety features by install rubber stopper on the side of I beam trolley and I beam to avoid from out of track to improve the equipment performance.