



اَبُو سَيِّدِي تَكْوَلُ لِي مَا اَنَا
UNIVERSITI
TEKNOLOGI
MARA



PROCEEDINGS OF JOHOR INTERNATIONAL INNOVATION INVENTION COMPETITION AND SYMPOSIUM 2024 (JIIICaS 2024)



*"Flourish and Nurturing Sustainable
Innovation for a Prosperous Nation"*

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Preface

In the name of Allah, the Almighty who gives us the enlightenment, the truth, the knowledge and with regards to Prophet Muhammad (peace be upon him) for guiding us to the straight path. We thank to Allah for giving us guidance and strength to write this e-book.

This e-book compiles the extended abstracts that submitted to Johor International Innovation Invention Competition and Symposium 2024 (JIIICaS2024), where JIIICaS2024 is a virtual platform for all creative minds to share and present their invention and innovation. Each abstract gives a brief background on the innovation or project.

We hope that this e-book will help the readers to get to know the innovation done by the students and get some ideas to develop future innovation products.

Foreword Rector



Assalamualaikum warahmatullahi Wabarakatuh,
Salam Sejahtera, Salam Malaysia MADANI and
Salam UiTM Dihatiku.

In the name of Allah, the Most Gracious, the Most
Merciful.

It is a great honor to welcome you to the Johor
International Innovation, Invention, Competition, and
Symposium 2024 (JIIICaS 2024). This event

connects various disciplines, focusing on education and engaging educators,
students, researchers, and innovators from all walks of life.

Innovation is not just about ideas; it demands perseverance, creativity, and
determination to turn those ideas into reality. The remarkable projects
showcased today highlight the dedication and spirit of all participants.
Initiatives like this not only explore new technologies but also cultivate skills
and leadership among our youth. At Universiti Teknologi MARA (UiTM) Johor
Branch, we are fully committed to fostering a dynamic culture of innovation,
promoting the commercialization of new products, and encouraging
meaningful collaborations with industry and society.

As we celebrate this event, I would like to extend my heartfelt gratitude to all
sponsors, judges, the College of Computing, Informatics and Mathematics,
UiTM Pasir Gudang Campus as the event organizer, as well as to the
researchers and participants for their hard work in making this event a
success. Let us continue striving for innovation and excellence. May the
ideas presented today inspire us and lay the groundwork for future
achievements.

Thank you.

Associate Professor Dr. Saunah Zainon
Rector
Universiti Teknologi MARA (UiTM)
Johor Branch

(A-SS006) The AUTOMATIC BELT ROLLING: Promoting Belt Rolling

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ABSTRACT

Want to show our product innovation which is automatic belt rolling. This is because found that there are a few people who tend not to keep their belts in the right place and in the wrong way. Develop an automatic belt rolling mechanism that seamlessly rolls and unrolls with the press of a button, providing convenience and ease of use for the wearer.

Keywords: Belt, Press button to rolling belt

1.0 INTRODUCTION

The Roll and Store Belt represents the latest innovation in belt design, engineered for optimal comfort and convenience. Featuring a user-friendly mechanism, these belts can be easily stored in luggage or drawers with the simple press of a button. Crafted from premium Nigan fabric, celebrated for its durability and stylish patterns, these belts offer a seamless fusion of comfort and sophistication. This innovative design ensures users can effortlessly achieve a harmonious balance between style and functionality.

2.0 OBJECTIVE

The Roll and Store Belt represents the latest innovation in belt design, engineered for optimal comfort and convenience. Featuring a user-friendly mechanism, these belts can be easily stored in luggage or drawers with the simple press of a button. Crafted from premium Nigan fabric, celebrated for its durability and stylish patterns, these belts offer a seamless fusion of comfort and sophistication. This innovative design ensures users can effortlessly achieve a harmonious balance between style and functionality.

3.0 METHODOLOGY

The creation of the Automatic Roll Belt originated from the acknowledgment of the shared difficulty encountered by individuals in effectively storing and preserving their belt. In order to tackle this problem, a dedicated function was devised to optimise the process of winding the belt. This innovation was motivated by observations that are revealed a significant number of individuals that have the difficulties in maintaining the belt in a n organised manner and frequently storing them improperly.

Additionally, in terms of functionality, the innovation that has been made for this product is to add button features on the side of the head of the plate strap for the automatic roll function to work. The designed button works automatically when the user presses it after using the belt. The automatic mechanism of these belts saves time and

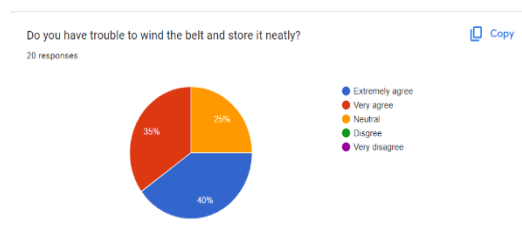
effort, especially in situations where need to quickly adjust or remove the belt. Whether went rushing to get ready in the morning or need to adjust throughout the day, automatic rolled belts offer efficiency in dressing. Automatic roll belt is very practical because it provides convenience to the user by pressing a button only, the belt will be rolled automatically and ready to be stored in the drawer.



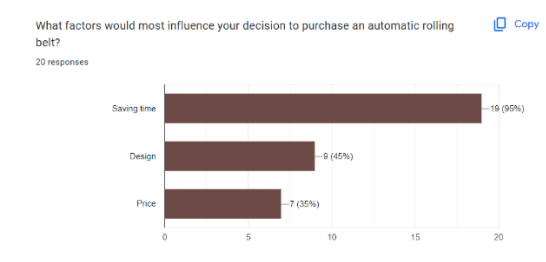
Figure 1: The picture of automatic roll belt with the button.

4.0 RESULT

A survey conducted at UiTM Dungun's campuses revealed a high level of awareness regarding automatic belt rolling. While 40% of respondents extremely agree reported that have trouble to wind the belt and store it neatly, over 35% of respondent are very agree and 25% respondent are neutral have trouble to wind the belt and store neatly.



95% of respondent vote saving time that factors would most influence their decision to purchase an automatic rolling belt, 45% of respondent vote design and 35% of respondent vote price that factors would most influence their decision to purchase an automatic rolling belt.



5.0 CONCLUSION

In summary, the purpose of the automatic rolled belt is to help people overcome their challenges of saving suitcase space when traveling. Users can also efficiently manage their time when hurrying to get ready for work. As a result, they do not have to deal with traffic bottlenecks on their way to work because they can get ready quickly. Finally, due of its contemporary design and ability to make the wearer appear sophisticated and fashionable in line with current trends, young generations can also purchase it. Eventually, we hope that our innovative products will help users and provide solutions to their issues. Furthermore, we hope that our product will find a home in the market and, more importantly, in the hearts of the community.