

MELAKA
INTERNATIONAL
INTELLECTUAL EXPOSITION

MIIEX'24

12 JUNE '24

Dewan Taming Sari,
Universiti Teknologi MARA Caw. Melaka,
Kampus Alor Gajah, Melaka

*"Empowerment of Special
Needs through Invention
& Innovation"*

**EXTENDED
ABSTRACT**

MiiEX'2024

MELAKA INTERNATIONAL INTELLECTUAL EXPOSITION 2024

**“EMPOWERMENT OF SPECIAL NEEDS THROUGH INVENTION AND
INNOVATION”**

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UiTM Cawangan Melaka

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78000 Alor Gajah

Melaka Bandaraya Bersejarah

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MiiEX'2024

MELAKA INTERNATIONAL INTELLECTUAL EXPOSITION 2024

“EMPOWERMENT OF SPECIAL NEEDS THROUGH INVENTION AND
INNOVATION”

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INNOVATION, INVENTION, AND DESIGN

FOREWORD BY THE RECTOR OF UiTM CAWANGAN MELAKA



Professor Ts. Dr. Mohd Rasdi bin Zaidi

Rector, Universiti Teknologi MARA (UiTM)

Cawangan Melaka

Welcome to the Melaka International Intellectual Exposition 2024 (MIIEX '24). It is an honour for me, on behalf of UiTM Cawangan Melaka, to thank all of you for joining MIIEX '24. We are proud to inform you that this is the 13th consecutive year that UiTM Cawangan Melaka is organizing this exposition. Since 2009, UiTM Cawangan Melaka has successfully hosted this innovation exposition. Not only have we succeeded in organizing the exposition, but we have also successfully embarked on commercialized products.

2024 is a special year where MIIEX 2024 emphasizes the development of special needs. As we know, special needs indicate a limitation in a person's ability to engage in and benefit from various aspects, such as daily activities and education. Hence, with the theme "Empowering Special Needs Through Invention and Innovation," it is a platform for industries, professionals, academicians, students, and communities to share their innovative ideas and products to increase accessibility for those with special needs.

The successful implementation of MIIEX '24 is our joint success. This event was supported by the Melaka state government through YB Datuk Fairul Nizam bin Roslan, the EXCO of Science, Technology, Innovation, and Digital Communication. I also want to express my

gratitude to Universitas Negeri Padang, Indonesia, Universitas Muhammadiyah, Makassar, Indonesia, the International Association of Economic and Businesses (IAEB), Universiti Sains Islam Malaysia, Ibnu Umri Maktum Research Center (UMMI), USIM, and The Southeast Asia Minister of Education Organization Regional Centre for Special Educational Needs (SEAMEO SEN) as our co-collaborators for MIIEX 2024.

The collaboration from various parties in MIIEX '24 is a platform that will improve cooperation and interweaving among industries, professionals, academicians, students, and communities in shaping their potential in developing innovation products. This exposition also serves as a platform to cultivate and uphold the nation's innovation culture by presenting new ideas and research by young people, especially from academia and universities. Indirectly, MIIEX '24 will encourage all inventors towards empowering Science, Technology, Engineering, and Mathematics (STEM), especially in primary and secondary schools.

The new digital landscape also inspires more innovation and new ideas that contribute to various activities, such as business and industries. As a university that encourages "Research and Innovation," we aim to foster more innovative products that benefit scholars, industries, and communities, addressing issues to improve our present and future life.

This exposition would never happen without dedication, teamwork, and commitment. A round of applause should be given to the committee teams, who are the backbone of this exposition. Their hard work, effort, and time made this exposition possible.

Finally, I would like to conclude this brief remark by thanking all the participants and stakeholders for joining the exposition. We hope that this collaboration never ends here.

Thank you.

FOREWORD BY THE DEPUTY RECTOR (RESEARCH & INDUSTRIAL LINKAGES)



Associate Professor. Dr. Nur Hayati binti Abd Rahman

Deputy Rector (Research & Industrial Linkages), Universiti Teknologi MARA (UiTM) Cawangan Melaka

With much passion and privilege, let me warmly welcome all of you to the Melaka International Innovation Exhibition (MIIEX), UiTM Cawangan Melaka's flagship event. I firmly believe that events such as these demonstrate the gradual evolution of this platform in terms of its significance and its governing principles within the sphere of learning and the broader scholarly society.

The theme for this year, "Empowering Special Needs Through Invention and Innovation," strongly connects to our mission of using research and technology to make a positive impact on the world we live in. Besides enforcing the message of diversity, this theme also reaffirms our focus on creating products to improve the lives of people with disabilities (PWDs). Such innovations are vital as only through focused constructive changes can society become more sensitive to the needs of all members.

MIIEX allows researchers, students, and industry professionals to come together, share their innovative research, and develop viable research partnerships. It has been great to see the enthusiasm of the participants and the efforts they put into their projects, which can offer various social and economic benefits. This is why one can state that MIIEX is a great

opportunity for creating connections between the academic environment and industry, facilitating the implementation of innovative and promising projects.

Finally, I would like to express my sincere appreciation to all the members and supporters of the organizing committee, all the participants, sponsors, and everyone involved in preparing this event. I want to express my gratitude for your commitment and involvement, as the success of MIIEX and the development of an active culture of innovation in our university and beyond is partly owed to your support.

Thank you

FOREWORD BY THE PROJECT DIRECTOR



Dr Zulkefli bin Muhamad Hanapiyah

Senior Lecturer

Assalamualaikum and Warmest Greetings,

It gives me a great pleasure, on behalf of the organizing committee, to welcome all participants and speakers to the Melaka International Intellectual Exposition 2024 (MIIEX '24) with the theme "Empowering Special Needs Through Invention and Innovation." We are honoured and pleased to welcome all participants to this biennial event.

MIIEX '24 is a platform that gathers experts from local and international industries, academia, scientists, researchers, and the community to contribute to the advancement of scientific and technological knowledge. This knowledge helps develop disruptive innovation products that improve daily activities for businesses and the community, especially those with special needs.

MIIEX '24 provides an atmosphere for inventors of all levels to gain new exposure and collaborate. Indirectly, this promotes a collaborative and innovative culture that focuses on cutting-edge technologies and new standards in technology and creativity.

MIIEX '24 is anticipated to serve as an arena for participants to acquire and disseminate revolutionary information on ideas and innovation. It is intended that the competition will expose the contestants' minds to the latest technologies and designs, aligning with the government's goal of encouraging innovation in Malaysia.

Finally, I want to compliment my fellow committee members on their amazing efforts, which were vital to the event's success. In addition, I want to thank our co-organizers, event sponsors, and participants. Optimistically, we hope that all new knowledge discovered, invented, or innovated will lead us toward future sustainability.

Thank you.

**FOREWORD BY MELAKA STATE EXCO OF SCIENCE, TECHNOLOGY,
INNOVATION AND DIGITAL COMMUNICATIONS**



YB Datuk Fairul Nizam bin Roslan

Melaka State Exco of Science, Technology, Innovation and Digital Communications

Welcome to the Melaka International Intellectual Exposition 2024 (MIIEX '24). It is an honor for me, on behalf of UiTM Cawangan Melaka, to thank all of you for joining MIIEX '24. We are proud to inform you that this is the 13th consecutive year that UiTM Cawangan Melaka is organizing this exposition. Since 2009, UiTM Cawangan Melaka has successfully hosted this innovation exposition. Not only have we succeeded in organizing the exposition, but we have also successfully embarked on commercialized products.

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Thank you.

MIIEX'24 ORGANISING COMMITTEE

COMMITTEE	NAME
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	DR NORASHIKIN ADAM
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	AFZAN SAHILLA BINTI MOHD AMIR HAMZAH
	MUHAMMAD FURQAN BIN AZHAR
	KHAIRUL AZHAR BIN LOCHMAN

ABOUT MIIEX'24

MIIEX'24 is an innovation competition annually organised by UiTM Melaka with the intention to bring together ideas and inspiration that could fit in for commercialization needs.

This event creates a platform for researchers to establish networking, partnership and opportunities to collaborate with industries.

OBJECTIVES

1. Encourage and instil passion towards inventing and innovating among UiTM Cawangan Melaka staff, students and academicians of local and international higher education institutions;
2. Highlight distinguished talents of skilful inventors and exhibit intellectual products, inventions and innovations among local and private tertiary institutions, government and private agencies, including international participants;
3. Become an effective Business Matching platform for participating research products, matching industries and partnering government agencies;
4. Recognise, inspire and promote invention and innovation products to be patented and commercialized;
5. Increase passion towards inventing and innovating through research and boost interests of government and non-government agencies to obtain consultancy services from a line up experts of higher education institutions and UiTM Cawangan Melaka.

THEME

'EMPOWERMENT OF SPECIAL NEEDS THROUGH INVENTION AND INNOVATION'

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Bridging The Gap: Technological Innovations and Sustainability Towards Transforming Disability Products

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Abstract

This extended abstract delves into the transformative impact of technological innovations on disability products, illustrating how advancements are bridging the gap between traditional assistive devices and modern technology. By examining key developments across various domains such as mobility aids, communication tools, and sensory enhancements, this study elucidates the profound shift towards more inclusive and empowering solutions for individuals with disabilities. The emergence of technological innovations marks a paradigm shift in the design and functionality of disability products, offering unprecedented levels of customization, adaptability, and user-centricity. From smart prosthetics equipped with sensor arrays and AI algorithms to wearable devices integrating biofeedback mechanisms, the landscape of assistive technology is undergoing a remarkable evolution. These advancements not only enhance the functional capabilities of users but also foster a sense of autonomy and independence. In conclusion, the integration of technological innovations with local knowledge holds immense potential to bridge the gap between traditional disability products and modern solutions, fostering greater inclusion, independence, and empowerment for individuals with disabilities. By embracing a collaborative and user-centric approach, stakeholders can harness the transformative power of technological innovations to create a more accessible and inclusive society for all.

Keywords: Technological innovations, disability products, empowerment, wearable devices.

1. INTRODUCTION

In an era defined by rapid technological advancement, the boundaries between disability and accessibility are being redrawn. The convergence of technology and empathy has sparked a revolution in the design and functionality of products tailored for individuals with disabilities. (Yoshiko Dart, 2014) Among these pioneering innovations stands the Signal Light Watch, a beacon of progress in the realm of assistive devices. This revolutionary timepiece not only tells time but serves as a guardian, a communicator, and an advocate for its users, epitomizing the transformative power of technological solutions. As we delve into the intricate web of advancements reshaping the landscape of disability products, the Signal Light Watch emerges as a shining example of how innovation transcends barriers, illuminating pathways to inclusivity and empowerment.

2. OBJECTIVES

The objective of this study is to explore how technological advancements are revolutionizing the landscape of disability products, effectively bridging the gap between individuals with disabilities and mainstream consumer products. By examining the emergence of technological innovations, which integrate both global technological trends and local needs, this research aims to shed light on the transformative potential of such innovations. Through a comprehensive analysis of case studies and market trends, this study seeks to identify key factors driving the adoption of technological innovations in disability products and assess their impact on improving accessibility, functionality, and inclusivity for individuals with disabilities.

The Signal Light Watch embodies the essence of technological innovation by seamlessly merging cutting-edge technology with the specific needs of individuals with visual impairments (Choi, K. W. & et al, 2007). Through its innovative design and features, such as tactile feedback, audible alerts, and customizable vibrations, the Signal Light Watch not only addresses the functional requirements of a traditional timepiece but also caters to the unique needs of its target users. By leveraging advancements in wearable technology and accessibility features, the Signal Light Watch serves as a prime example of how technological innovations are transforming disability products, empowering individuals with visual impairments to lead more independent and

inclusive lives. Its integration of global technological trends with local accessibility needs epitomizes the potential of such innovations to bridge the gap between disability products and mainstream consumer offerings, ultimately fostering greater inclusivity and equality for all.

3. NOVELTY AND INVENTIVENESS

At the forefront of technological innovations transforming disability products stands the Signal Light Watch, a testament to novelty and inventiveness in assistive technology. Unlike conventional timepieces, the Signal Light Watch goes beyond mere timekeeping, integrating a myriad of features tailored to address the unique needs of individuals with disabilities. Its innovative functionality includes customizable vibration alerts for notifications, high-contrast display options for improved visibility, and tactile buttons for intuitive navigation, all designed to enhance accessibility and independence (Almeida, A., & et al, 2021).

Furthermore, the watch incorporates advanced communication capabilities such as text-to-speech technology and emergency contact alerts, ensuring that users can stay connected and safe in any situation. By pioneering these groundbreaking features, the Signal Light Watch sets a new standard for assistive devices, bridging the gap between disability and technology with unprecedented ingenuity and foresight.

4. PRACTICALLY AND USEFULNESS

This innovative product is leading the way in transforming the everyday lives of individuals who are deaf, providing them with a means of achieving greater autonomy and self-determination. Given that they provide a visual form of alarm or notification, Signal Light Watch is extremely helpful for people who are deaf. The main benefit of Signal Light Watch is their ability to provide safety that can assist the deaf respond swiftly to possible threats by alerting them to emergency circumstances, such as security systems or fire alarms. In addition, Signal Light Watch facilitate communication for deaf people can respond to guests or critical communications by using signal lights to indicate phone calls, doorbells, or intercom notifications (Chaowarat, R. & Chayanon,

T., 2012) It thereby promotes greater independence for deaf people can live more independently thanks to Signal Light Watch since they don't need to rely on sound-based indications.

When audio clues are insufficient or inaccessible for the deaf, Signal Light Watch provides a useful alternative. The first is home safety systems, which come with a security system and a fire alarm. The purpose of fire alarms is to provide visual alerts in the case of a fire or carbon monoxide leak by integrating signal lights into the device. Signal Light Watch can be linked to your home security system by security systems so that you are informed of any intruders or other security issues. Second, offer alerts for communication that can be used as phone alerts and doorbells. When a doorbell is pressed, the Signal Light Watch installed on the doorbell may flash, giving a clear visual indication of who is calling. Alerts on your phone can let others know when a call or text is received, use Signal Light Watch. This can be accomplished by integrating smart home technologies or by using specialist equipment. Additionally, it can be used practically as a smart home integration system that includes smart lighting that can flash or alter when specific events occur, such as an alarm going off or a person knocking on the door.

5. CONCLUSION

Designing a Signal Light Watch that accommodates the needs of individuals with impairments is our company's passion. Our mission is to ensure that everyone feels included and empowered to live their best lives, not merely to create amazing technologies. Through the application of cutting-edge technology and careful consideration of user needs, we think our company can significantly impact millions of people globally (Zhang, Y., & Park, S. Y., 2019).

Regardless of the difficulties users may encounter, our goal is to ensure that our products are simple to use for everyone. This entails carefully considering how to develop them to be as useful as possible to the greatest number of users. We want to provide persons with disabilities with the resources they require to be more autonomous and to have greater possibilities in life by emphasizing inclusivity from the outset. Our creative goods are our commitment to ensuring that everyone has an equal opportunity to live their best life. We are thrilled to be a part of this movement.

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