

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 Umami 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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Autism Specialized Band

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Abstract

Autism is a neurodevelopmental disorder that will have a permanent and lifelong impact on the patient. It will affect brain development and will affect the child's communication, social and thinking skills. The neglect of family members and the people around them often causes children with autism to suffer accidents. According to the World Health Organization, it is estimated that one out of every 100 children in the world has autism. These autistic children are also often harassed and tested for their deficiencies. In Malaysia, there have been several cases of child abuse and murder of children with autism that have occurred in recent years. For that reason, the safety bracelets for children with autism have been upgraded to help them in case they are in an emergency. Strategic marketing is the key for our product to success. Of course, we are targeting a family that takes care of an autistic children. Therefore, it is essential to promote and widely bring the product to the markets. Ways to commercialize and promote the product are by partnerships with therapists and clinicians, participation in Trade Shows and Conferences and online marketing. Moreover, these autistic children need full support so that they can run their daily lives with affection from the people around them. This Autism Specialized Band can contribute to help family members who have children with autism to be more careful in ensuring their children's safety and makes it easy for family members to track and locate their children if they disappear.

Keywords: Autism, Bracelet, Safety, Support

1. INTRODUCTION

Autism comes from Greek word which are 'autos' means self and 'ismos' means condition that describes a person who lives in his own world. Patients with autism typically experience difficulties engaging with others, communicating, and having limited interests and hobbies. Those who are fortunate enough to have a child with autism are frequently watchful and cautious in making sure the child is safe. There are numerous difficulties the parents face when raising a kid with autism. For instance, there are murder cases and other incidents like the disappearance of an autistic youngster. A safety wristband has been developed to address the challenges experienced by parents of autistic children in order to address this issue. So, this remarkable accessory is the result of a collective vision to create a more accessible and secure world for disabled. The inspiration behind the safety bracelet is carefully rooted to empower individuals with disabilities to live life on their own to the fullest. Every feature was carefully designed from its robust safety capabilities to its additional settings to make sure it can improve one's life with confidence and dignity. This product called "Autism Specialized Band" was brought to life with brand name "Ozel".

2 OBJECTIVES

As we know, these autistic children need full support so that they can run their daily lives with affection from the people around them. This is so they don't feel distracted. Family members should also play an important role in making it easier for these children to live their normal lives. These efforts also aim to help these autistic children identify things that shouldn't have happened, to attract the attention of the public to be more sensitive to these children and help family members who have children with autism to be more careful in ensuring their children's safety.

3. NOVELTY & INVENTIVENESS

The Autism Specialized Band is meticulously crafted with the specific needs and concerns of parents of children with autism in mind. Understanding the difficulties of caring for a child on the spectrum, our product is ingeniously designed to provide practical support and peace of mind. Its intuitive interface and user-friendly features ensure ease of use, allowing parents to effortlessly incorporate it into their daily routines without disruption. By partnering with relevant government ministries and non-governmental organizations (NGOs) focused on

autism advocacy and support, we can utilize their expertise and networks to raise awareness and promote the product to a wider audience. These collaborations not only increase credibility but also make it easier to get finance and regulatory support. With the goal of easing the difficulties faced by parents of autistic children, our product emerges as a reliable ally in fostering family cohesion, safety, and communication.

4. PRACTICALITY & USEFULNESS

Autism Specialized Band could integrate seamlessly with existing autism therapy programs or applications that allows for providing real-time feedback, reminders for therapy sessions or for practicing social skills exercises. Autism centers that are based in Malaysia such as Autism Link, address the need for comprehensive services for children with Autism Spectrum Disorder (ASD). This center offers a diverse choice of services including a free consultation to help caregivers to make an informed decision. Additionally, such services like intensive Applied Behaviour Analysis (ABA) therapy, after-school program, screening and diagnosis are also provided. This approach is highly beneficial for both parties. In conclusion, the creation of a specialized band for individuals with autism that integrates with therapy programs holds immense promise for enhancing the well-being and development of those on the spectrum.

This Autism Specialized Band provides a variety of features that can be quite helpful for people who are prone to wandering and have diseases like autism. This band is built to have a location tracking, emergency alert system and CCTV integration. This band comes with this technology capabilities offering additional security and monitoring. These features of the band help family members or caregivers to keep an eye through the mobile app to make sure their autistic families are safe from any danger.

5. CONCLUSION

We are contended to innovate Autism Specialized Band in order to ease our potential customers' lives especially for autistic kids. We hope that our product has the potential to enhance safety and peace of mind for both individuals and their caregivers. By Attaching Autism Specialized Band to personal belongings or wearable items, caregivers can easily track the location of individuals with autism, it is also reducing the risk of wandering and providing a sense of security. In a broader view, this product is hoped to promote the quality for autistic

kids to enjoy their life in their situations. We hoped that by introducing this product, it could ease everyone and we would like to create a long-term relationship with the customer for a better improvement in the future.

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