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**JOHOR
INNOVATION
INVENTION
COMPETITION
AND
SYMPOSIUM
2023**



"Innovation Inspires a Society
to be Critical and Creative"

JOHOR INNOVATION INVENTION COMPETITION AND SYMPOSIUM 2023



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Editors-in-Chief

**AHMAD KHUDZAIRI KHALID
NUR INTAN SYAFINAZ AHMAD**



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**Cawangan Johor
Kampus Pasir Gudang**

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**Editors-in-Chief: AHMAD KHUDZAIRI KHALID &
NUR INTAN SYAFINAZ AHMAD**

**Art & Cover Designer: DR. WAN MUNIRAH WAN MOHAMAD
& DR. NUR IDAYU ALIMON**

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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 Innovation Invention Competition and Symposium 2023 (JIICaS2023), where JIICaS2023 is a virtual platform for all creative minds to share and present their invention and innovation. The extended abstracts are divided into two categories, which are Category A (Higher Educational Student/ Any Recognized Institutional Students in Malaysia) and Category B (Primary/ Secondary School Students / Special Education School Students in Johor). 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 from both categories and get some ideas to develop future innovation products.



OS STICK

NOOR HALIZA BINTI JUROEE, NURALLIYANA BINTI HALIM, KHAIRUNNISA' BINTI AZIZAN, NURSYAQINAH BINTI ABD LATIF

Faculty Of Hotel And Tourism Management, UiTM Puncak Alam

Noorhaliza778@gmail.com

ABSTRACT

In a world where creativity is always being pushed to new heights by technology, a wonderful development has emerged. With the amazing Stick Drone, a cutting-edge marvel that redefines the idea of aerial mobility, get ready to soar into the future. The Stick Drone is your ideal companion whether you're taking breath-blowing aerial pictures, exploring enormous vistas, or just enjoying the thrill of flight. The problem when we want to take a selfie is awkward angles. It can be difficult to get the ideal perspective for a selfie, especially if you're attempting to capture more than just your face. Find the most attractive position by experimenting with various angles while holding the camera just above or below your face. To give your selfies more variety and individuality, tilt your head slightly and don't be afraid to try out new stances or expressions. Another problem is ask other people to take the photos. Photo quality and composition, occasionally, the quality or composition of photographs taken by others may not live up to your standards. Although it's difficult to totally regulate these factors. Next problem is can't take a lot of photos. Limitations of the stand tripod. Changing the position, angle, or height between photos when using a selfie stick or tripod can be time-consuming. The objective is enhancing self-photography. A selfie stick drone's main goal is to give consumers a cutting-edge, practical equipment for taking excellent self-portraits. It intends to enable users to take distinctive angles, viewpoints, and wide-angle pictures that were previously challenging to produce with handheld devices by fusing the aerial capabilities of a drone with the functionality of a conventional selfie stick. Next objective is aerial photography and videography is made possible. Another goal of OS Stick is to give users the freedom to investigate the potential of aerial photography and videography. These OS Stick, which can fly and hover, provide a distinctive viewpoint and capture breathtaking aerial photographs and videos that were previously only accessible to professional photographers or videographers. Aerial footage may now be readily incorporated into users' creative projects and visual narratives. The uniqueness and functionalities of OS Stick is lightweight, compact, and highly portable. The OS Stick is designed to be small and portable. You can take stunning aerial selfies everywhere you go thanks to its compact size, which makes it simple to put in a bag or even fit in your pocket. The advantage of OS Stick is you don't need to ask people to take your photos. A selfie drone gives you total autonomy and control over your photo-taking process. You can snap pictures whenever and wherever you choose because you are not dependent on others to get the shots you want. Next is can help you to get a good angle. Selfie drones may fly very high in the air, enabling you to take pictures from an elevated angle. This viewpoint provides a wider view of the scene and a unique and eye-catching angle that is difficult to achieve with conventional handheld shooting. Another benefit is easy to do vlog and join trend on TikTok. Selfie drones are equipped with stabilisation devices that allow them capture steady, fluid video. This is especially useful for vlogging and TikTok videos because it makes sure that your content looks clean and professional even when you're moving around or in difficult settings. OS Stick are quite portable, so you can bring them with you wherever you go. You may easily bring your drone along to shoot. breathtaking aerial images of your trip experiences, whether you're visiting a new city, going on a hike in the mountains, or just relaxing on a beach. In conclusion, OS Stick provide a variety of special features and

functionalities that address the requirements and tastes of contemporary consumers. These gadgets appeal to a wide range of user groups due to their many advantages.

Keywords: selfie, stick, photograph, photo

1.0 INTRODUCTION

In a world where creativity is always being pushed to new heights by technology, a wonderful development has emerged. With the amazing Stick Drone, a cutting-edge marvel that redefines the idea of aerial mobility, get ready to soar into the future. Imagine a small, light-weight craft that can soar through the air with ease while providing you with a bird's-eye perspective of the entire planet. A ground-breaking invention called the OS Stick aims to make flying more accessible to everyone. This futuristic masterpiece flawlessly combines form and function with its clean, minimalist design. The Stick Drone is your ideal companion whether you're taking breath-blowing aerial pictures, exploring enormous vistas, or just enjoying the thrill of flight.

2.0 OBJECTIVE

The objective is enhancing self-photography. A selfie stick drone's main goal is to give consumers a cutting-edge, practical equipment for taking excellent self-portraits. It intends to enable users to take distinctive angles, viewpoints, and wide-angle pictures that were previously challenging to produce with handheld devices by fusing the aerial capabilities of a drone with the functionality of a conventional selfie stick. Next objective is aerial photography and videography is made possible. Another goal of OS Stick is to give users the freedom to investigate the potential of aerial photography and videography. These OS Stick, which can fly and hover, provide a distinctive viewpoint and capture breathtaking aerial photographs and videos that were previously only accessible to professional photographers or videographers. Aerial footage may now be readily incorporated into users' creative projects and visual narratives.

3.0 DESCRIPTION OF INNOVATION/METHODOLOGY

The creation of this product aims to make it easier for tourists when traveling, especially when taking photos and videos. This is because this OS Stick is very easy to use when traveling with family, in large groups, or when traveling alone. This is said because the OS Stick was created for tourists who often travel or customers who often take pictures or videos of their daily lives. OS Stick was created to meet all the needs of travelers because this product is small and portable, can be easily carried and fit in a travel bag, and does not require much space. In addition, this OS Stick is also equipped with tracking technology to automatically follow tourists, which can make it easier for tourists to take their own videos.

In addition, this product also has hand signal control for easy selfies and videos, and this OS Stick is also operated and easy to fly with the Bluetooth application included in this product to connect the phone with the OS Stick. This product is also equipped with GPS positioning for accurate flight control, and for the safety of this product, it also has an obstacle avoidance sensor for safer flight. Therefore, this OS Stick is able to provide many benefits to tourists, namely that tourists can take interesting photos and videos from the air and capture their travel memories in an interesting and new way that is more fun by using it. This is because this OS Stick is specially designed for those who like to take pictures and videos, and this OS Stick is also suitable for solo travelers, travelers traveling with family, and anyone who wants to take photos or record amazing videos from the air while traveling or doing leisure activities.

Table 1: Price of OS Stick

| | Item | Price | Unit | Total |
|---|----------------------|-------|------|-------|
| 1 | Battery RC Dron | 89 | 1 | 89 |
| 2 | Plane Battery 3.7v | 20 | 1 | 20 |
| 3 | Two-Way Charging Hub | 39 | 1 | 39 |
| | Total | | | 148 |

Example of Figure is given below.

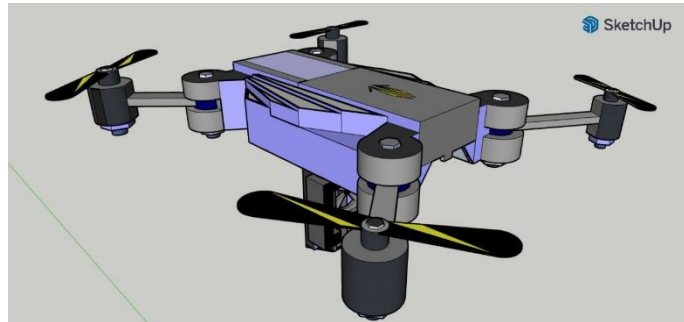


Figure 1: OS Stick

4.0 ADVANTAGE/IMPACT/RESULTS/NOVELTY

The advantage of OS Stick is you don't need to ask people to take your photos. A selfie drone gives you total autonomy and control over your photo-taking process. You can snap pictures whenever and wherever you choose because you are not dependent on others to get the shots you want. Next is can help you to get a good angle. Selfie drones may fly very high in the air, enabling you to take pictures from an elevated angle. This viewpoint provides a wider view of the scene and a unique and eye-catching angle that is difficult to achieve with conventional handheld shooting. Another benefit is easy to do vlog and join trend on TikTok. Selfie drones are equipped with stabilisation devices that allow them capture steady, fluid video. This is especially useful for vlogging and TikTok videos because it makes sure that your content looks clean and professional even when you're moving around or in difficult settings. After that , it easy to carry , not heavy and suitable for travelling. OS Stick are quite portable, so you can bring them with you wherever you go. You may easily bring your drone along to shoot. breathtaking aerial images of your trip experiences, whether you're visiting a new city, going on a hike in the mountains, or just relaxing on a beach.

5.0 CONCLUSION

In conclusion, OS Stick provide a variety of special features and functionalities that address the requirements and tastes of contemporary consumers. These gadgets appeal to a wide range of user groups due to their many advantages. First off, since users can easily control the drone's movements and take pictures or movies from specific angles, selfie stick drones do away with the need to rely on third parties for photography. Because of their autonomy, they are more creative and liberated while capturing special moments.