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PROCEEDINGS OF JOHOR INTERNATIONAL INNOVATION INVENTION COMPETITION AND SYMPOSIUM 2024 (JIICaS 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)
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(A-ST036) ETERNASCRIBE

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ABSTRACT

The EternaScribe is a revolutionary new printing device that is also good for the environment. Instead of standard ink cartridges, this innovative device uses flower petals for color ink and coffee grounds for black ink. Regular printers often have problems like paper jams, text that isn't clear, and error messages that aren't clear. This inkless printer is a reliable and environmentally friendly alternative. The EternaScribe uses the natural qualities of coffee grounds and flower petals to not only clean up the environment but also help it last longer through the circular economy plan.

Keywords: EternaScribe, Printer, Eco-Friendly, Convenient, Time-Saving, and Connectivity.

1.0 INTRODUCTION

The EternaScribe represents a paradigm shift in printing technology, addressing growing concerns regarding environmental sustainability. This new printer solves all the environmental problems that regular printing methods cause by using natural materials to make prints. The printer's main ink sources are coffee grounds and flower petals. This not only reduces its carbon footprint but also supports a circular economy by finding new uses for organic trash.

2.0 OBJECTIVE

Creating a creative and sustainable substitute for conventional printing techniques is the aim of the inkless printer. It aims to provide affordable, high-quality prints with less of an impact on the environment by using natural ingredients like coffee grounds and flower petals. This printer encourages innovation and productivity in the sector while meeting the growing need for environmentally responsible printing solutions.

1. To promote Sustainability and Environmental Friendliness.

The EternaScribe aims to reduce reliance on conventional ink cartridges, notorious for their environmental impact. By utilizing biodegradable materials like coffee grounds and flower petals, this printer contributes to minimizing environmental harm associated with printing.

2. To provide Time-Saving Convenience

This printer offer convenience through various avenues:

- Easy disposal: Biodegradable ink sources simplify disposal, eliminating the need for specialized recycling methods.
- Accessibility & flexibility: Remote printing capabilities via user-friendly mobile apps enable efficient management of printing tasks from anywhere.

3. To reduce Cost.

By utilizing readily available and cost-effective materials like coffee grounds and flower petals, the EternaScribe significantly lowers consumable expenses compared to traditional ink cartridges.

4. To strive for Quality & Performance

Precision ink delivery systems prevent printing issues such as jams and streaks, ensuring consistent print quality and reliability over time.

3.0 METHODOLOGY

The EternaScribe employs eco-friendly materials during production, aligning with the growing demand for sustainable technologies. Offering multiple connectivity options, including Wi-Fi and mobile apps, users can seamlessly print from various devices. Integration with voice-activated command systems like Google Assistant enhances convenience, while an integrated digital signature feature streamlines document signing processes.



Figure 1: Product of image

4.0 RESULTS

The EternaScribe revolutionizes printing technology with its eco-friendly approach and innovative features. Its appeal lies in providing vibrant prints while reducing environmental impact and printing costs. This printer sets new standards for sustainability and innovation, catering to environmentally conscious consumers and businesses alike.

5.0 CONCLUSION

In conclusion, the EternaScribe is a big step forward in printing technology. It provides a cheap and long-lasting way to print. This printer shows how innovation and concern for the environment can work together by putting environmental sustainability first and using natural materials. The EternaScribe is a shining example of progress in the printing business at a time when more people want eco-friendly technologies.

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