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BUILDCON2023

**COMPILATION OF PROJECT INNOVATION IDEAS
SEMESTER MARCH – AUGUST 2023**

EMBRACING SMART CONSTRUCTION TRANSFORMATION

BUILDERS' CONVENTION DAY 2023

**Department of Built Environment Studies and Technology
College of Built Environment
Universiti Teknologi MARA Perak Branch**

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Organised by
Department of Built Environment Studies and Technology
College of Built Environment
Universiti Teknologi MARA Perak Branch
Malaysia

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Perpustakaan Negara Malaysia

Cataloguing in Publication Data

No e- ISBN: 978-967-2776-24-6

Cover Design: Muhammad Naim Mahyuddin

Typesetting : Siti Akhtar Mahayuddin

e ISBN 978-967-2776-24-6



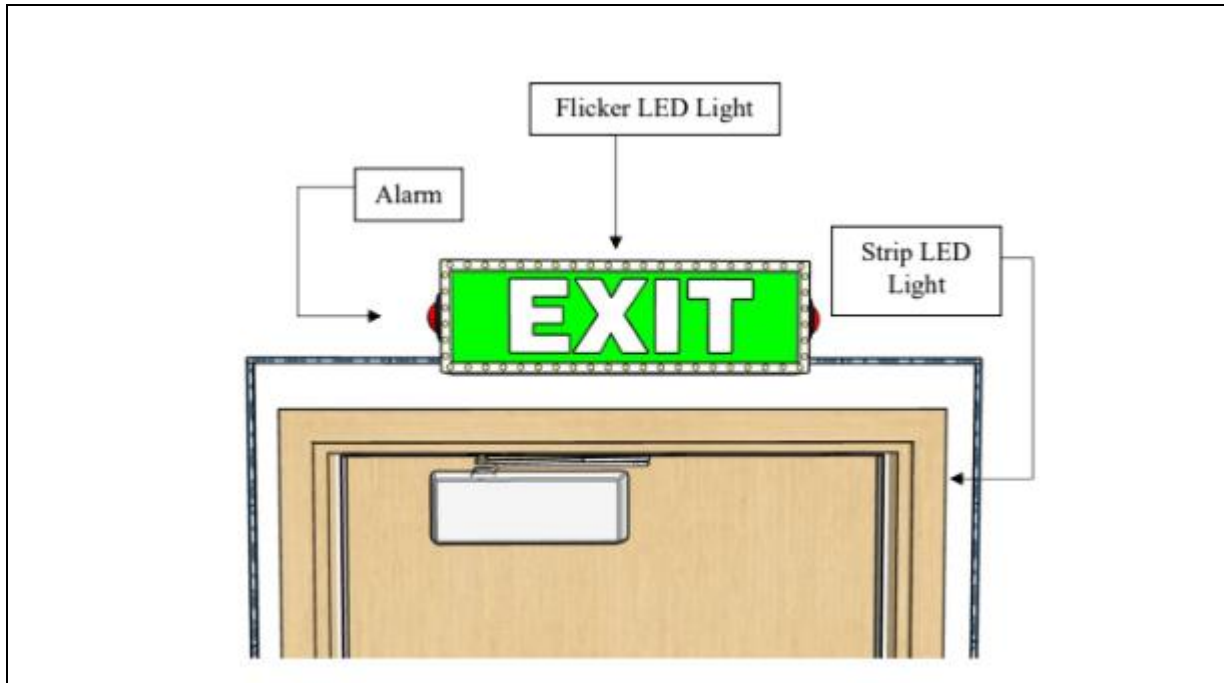
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ADVANCED EXIT SIGN

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Advanced Exit Sign

Innovation Idea:

This paper presents a new concept of an Advanced Exit Sign designed for installation in commercial buildings. It addresses the issue of occupants who may have visual impairments, providing assistance in finding a way out during emergencies. The main purpose behind the concept of the Advanced Exit Sign is to elevate safety standards by designing a revolutionary exit sign which is integrated with an alarm system, flickering light-emitting diode (LED) lights, and LED strip lights. The aim of this research is to produce technology in managing exit sign systems that can be used by all occupants of commercial buildings. The objectives are to design sign ideas for the Advanced Exit Signs, assemble a prototype, demonstrate the performance of the sign, and propose a business plan for the product. The method used in this study employs innovation framework based on design thinking. The suggested innovation idea was developed from a basic hand sketch to a three-dimensional (3D) model using the SketchUp Pro 2022 programme, enhancing the visual representation of the concept. The experimental results were interpreted and analysed to evaluate the prototype's performance. In conclusion, advanced exit signs featuring an alarm system, flickering LED lights, and LED strip lights represent a valuable enhancement for building safety.

Surat kami : 700-KPK (PRP.UP.1/20/1)

Tarikh : 20 Januari 2023

Prof. Madya Dr. Nur Hisham Ibrahim
Rektor
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Kelulusan daripada pihak tuan dalam perkara ini amat dihargai.

Sekian, terima kasih.

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Saya yang menjalankan amanah,

SITI BASRIYAH SHAIK BAHARUDIN
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Setuju.

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