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Cawangan Perak



## **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**

**BUILDCON 2023**  
**COMPILATION OF PROJECT INNOVATION IDEAS**  
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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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#### **Editors**

*Siti Akhtar Mahayuddin*

*Noor Rizallinda Ishak*

*Nor Asma Hafizah Hadzaman*

*Sallehan Ismail*

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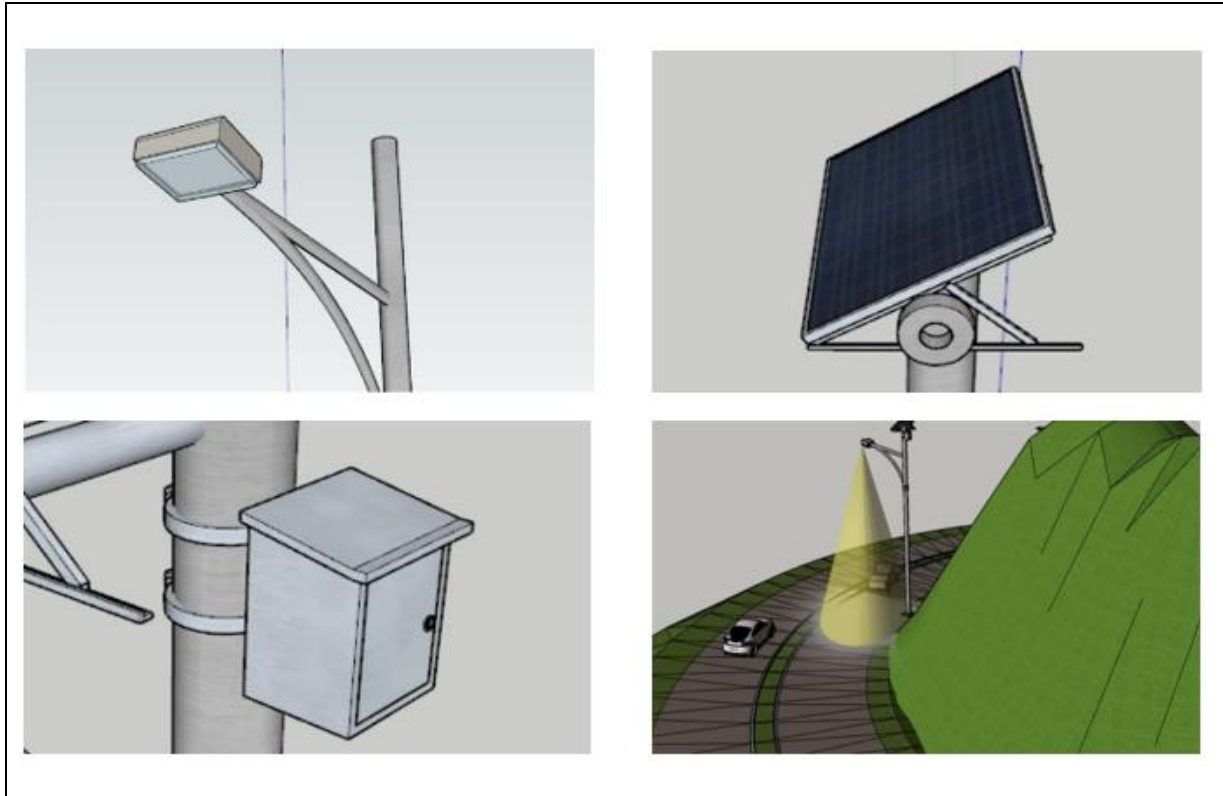
## INNOVATION OF STREETLIGHT AT CURVED ROADS

Nurin Husnina Hussin<sup>1</sup> and Azira Ibrahim<sup>2</sup>

<sup>1,2</sup>Department of Built Environment Studies and Technology, College of Built Environment, Universiti Teknologi MARA Perak Branch,

32610 Seri Iskandar, Perak

Email: 2021468712@student.uitm.my<sup>1</sup>, azira152@uitm.edu.my<sup>2</sup>



Innovation Of Streetlight At Curved Roads

### **Innovation Idea:**

Streetlight has been used for the first time in London to brighten up the town during winter. As time goes by, the development of streetlight usage has been advanced globally and that includes Malaysia. However, the current road condition in Malaysia requires an improvement since road has become one of the important elements in people's daily lives. There are several areas on roads that require curved roadwork to preserve nature. The percentage of accidents on curved roads is higher compared to straight roads, since drivers' visibility is limited, especially at night when they may not notice oncoming cars from another lane. Hence, the current streetlight has several limitations that contribute to increased carbon emissions in our atmosphere. Since roadworks are the primary means of access for everyone and are used in people's daily lives, ensuring the safety of road users while also protecting the environment need to be a priority. This can be achieved by innovating streetlights on curved roads with the incorporation of solar panels and PIR sensors. The methodology employed in this research includes document review, research process, and simulation using SketchUp software. By introducing the innovation of streetlights on curved roads, the safety of road users can be assured as it helps to minimise the risk of accidents in these areas and proves to be environmentally friendly even with prolonged usage.

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

Tarikh : 20 Januari 2023

Prof. Madya Dr. Nur Hisham Ibrahim  
Rektor  
Universiti Teknologi MARA  
Cawangan Perak



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Kelulusan daripada pihak tuan dalam perkara ini amat dihargai.

Sekian, terima kasih.

“BERKHIDMAT UNTUK NEGARA”

Saya yang menjalankan amanah,

**SITI BASRIYAH SHAIK BAHARUDIN**  
Timbalan Ketua Pustakawan

*nar*

*Setuju.*

*27.1.2023*

PROF. MADYA DR. NUR HISHAM IBRAHIM  
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