



UNIVERSITI
TEKNOLOGI
MARA

Cawangan Melaka

i-JAMCSIIX 2022

International Jasin Multimedia & Computer Science Invention and Innovation Exhibition

ABSTRACT BOOK

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In Partnership:



Tadulak● University

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i-JaMCSIIX **2022**

International Jasin Multimedia & Computer Science Invention and Innovation Exhibition

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i-JaMCSIIX

Universiti Teknologi MARA Cawangan Melaka Kampus Jasin

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Web: <https://jamcsiix.wixsite.com/2022>

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Smart Vector Backpack

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JM035 – Innovation – Local – Category C: Students - Higher Institution (Diploma/Bachelor)

Abstract—A bag is an essential item for any traveler. It is more than just a storage facility that ensures the safety of all travelers' belongings. The goals of creating this backpack are to provide a comfortable and safe self- vacation wherever they are, as well as to pursue innovation in tourism, particularly in producing practical and convenient products, and to keep travelers organized even on their restless trips. The Smart Vector Backpack (SVB) is not your typical backpack. This bag is designed with a solar panel on the front side of the bag to assist travelers in charging their phones, laptops, and electronic devices. Another useful feature of this bag is that it has a Global Positioning System (GPS) that allows users to track the bag if it goes missing. The bag is made of polyester fabric, which makes it lightweight and water-resistant. Available in fluorescent colors such as green, yellow, and pink for easy visibility and detection by the user at night or during the day. It also serves as an anti-theft feature because the zip is hidden on the back of the bag and cannot be seen or found while the bag is in use. It is required for all travelers because it solves security issues and needs.

Keywords—backpack, GPS, smart bag, anti-theft, solar panel