

Hong Kong Student Science Project Competition 2023
Template of Extended Abstract (Invention)

Team Number: JAPE201
Project Title: Minibus Safety System
Project Type: Invention

Members:
LEUNG BRYAN NOK FUNG
CHUANG CHING WAI
TSANG CHUNG HEI
LEUNG MAN HEI

A news story about an elderly person passing away while exiting a moving minibus has inspired the development of a minibus safety system. The system aims to improve passenger safety by alerting drivers to passengers getting on and off the minibus, especially those who may require extra assistance. The objective is to benefit disadvantaged groups such as the elderly, people with disabilities, and children, and to reduce traffic accidents and injuries while improving overall road safety and travel experience. Drivers will no longer need to frequently look back at passengers to ensure their safety, allowing them to concentrate on driving, reducing the risk of accidents. Passengers will be able to safely enter and exit the minibus compartment without the risk of the driver moving the vehicle, reducing the chance of injuries and accidents within the minibus. The invention raises awareness of the importance of road safety and provides an opportunity to learn coding and crafting skills to create a minibus model.

二零二三年香港學生科學比賽
延伸摘要範本 (發明品)

隊伍號碼：JAPE201

作品名稱：小巴安全系統

參賽類別：發明品

成員：

梁諾豐

莊澄慧

曾仲曦

梁文熙

一則新聞報導提到一位年長者在下小巴時，因為車子已經在移動從而跌倒，最後不幸過世，這個不幸啟發我們研發小巴安全系統。該系統旨在透過警示駕駛員注意上下車的乘客，尤其是那些可能需要額外協助的乘客，以提高乘客的安全性。其目的在於造福弱勢族群，如老年人、殘障人士和兒童，同時減少交通事故和傷害，提高整體道路安全和旅行體驗。駕駛員不再需要頻繁地向後看以確保乘客的安全，使其能夠專注於駕駛，從而降低事故風險。乘客能夠安全地進出小巴車廂，而不必擔心駕駛員移動車輛，減少傷害和事故風險。這項發明提高了我們對道路安全的重視，並提供了一個學習編程和製作模型的機會。