

DEVELOPMENT OF AN AUGMENTED REALITY BASED MOTOR VEHICLE SAFETY EQUIPMENT RECOGNITION APPLICATION

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ABSTRACT

Motorcycle driving safety is a major concern in society, but many individuals do not care about the importance of motorized driving safety rules and measures on the road. This lack of awareness can lead to potentially fatal accidents. As an effort to educate the public about the importance of safety in motorized driving, an application has been developed using Augmented Reality (AR) technology to introduce motor vehicle safety tools. Augmented Reality (AR) is a technology that can combine the digital world to be displayed in the real world in the form of 3D objects. By using the AR application, the public will be educated about the importance of motorbike safety through an interactive and engaging visual experience. This research uses a marker-based tracking method. Marker-based tracking allows users to identify and track objects or markers to be scanned by the camera. By using this technology, it is hoped that awareness of the rules and safety measures for motorized driving will increase so that people will be more careful when driving.

Keywords: Augmented Reality, Driving Safety, Unity, Vuforia, Android