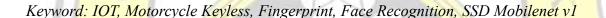# PROJECT REPORT

Motorcycle Keyless with Fingerprint and Face Recognition based on SSD MobileNet v1 Algorithms

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ABSTRACT

Motorcycles are the most used transportation in Indonesia that is used to go to places that is near or even far away. Beside the price is classified be affordable for people, it's also easier to get through traffic jams and even narrow roads. But often, motorcycles are targeted of theft due to weak security. Based on motorcycle theft statistics data, there are 13.045 cases in 2022[1]. However the high rate of motorcycle thefts calls for improved security measures. Conventional safety locks provide limited protection, leading to a need for enhanced security systems. The aim of this research is to develop a secure motorcycle access system that minimizes the risk of unauthorized access. Outcome of this research is double security (fingerprint and face recognition) in motorcycle. By storing owners' fingerprints and face in a database, the system can compare and verify the user's identity, ensuring secure access. The implementation involved programming language in C within the Arduino software, and also PHP, My SQL, Javascript as program languages in web base for face recognition and SSD Mobilenet v1 as an algorithm.

Keyword: IOT, Motorcycle Keyless, Fingerprint, Face Recognition, SSD Mobilenet v1

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[1] https://pusiknas.polri.go.id/detail_artikel/hati-hati_curanmor_r-2_di_akhir_tahun