

## **ABSTRACT**

In travelling from one place to another, human need vehicle that can provide convenience in travelling. In Indonesia, the growth of vehicles numbers each year has always increased in line with population growth increase as well. Vehicles growth that continues to increase making space on the streets diminish. In daily life in Indonesia, many vehicle users commit violations and seize pedestrian rights.

In order to overcome these violations, a tool is needed to discipline vehicle users to comply with regulations. Amans is a solution for the problem, it is a mini Internet of Things (IoT) device that record vehicle plates every time it violates the regulations. This IoT device means to create an effective effort to reduce vehicle violation. Data from the device will be in the form of text of the vehicle plate number and database is needed to store those data. In order to record the violations data, a database will be made to be accessed by vehicle users and police for further actions including violation self-check and sanctions.

This thesis implement database and website to display user vehicle data that aim to facilitate the traffic law enforcement work to minimize the sidewalk violation by motorcycles. The average time to store registration data to the database is 1,753s as it can be categorized as near real-time system since it has approximately 2 seconds of delay. All of the features on the website work properly with the average success percentage of 97,3%.

Keywords: Vehicle, Plate Number, IoT, Database, Website