

## ABSTRACT

Most residents in Indonesia have a motor vehicle for traveling. Many riders suffered traffic accidents. One of the causes of accidents are speeding vehicles. The police can only monitor during a raid so there are still motorists violating traffic rules.

Therefore in this final project will be designed a motor vehicle speed devices (*Hardware*). In the form of speed sensor used to detect vehicles passing in front of him. This tool issued a warning via the *LCD display*.

From the measurement results 2 ultrasonic sensor device can detect the distance with an error rate of 4.54% and 4.52%. And the results of measurements of this speed detection device can detect the speed of this tool with an error rate of 0.383%.

Keywords : *Hardware, Display, LCD.*