

# VEHICLE IDENTIFICATION

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## ABSTRACT

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This 'vehicle identification' is a system that is capable of identifying the class of vehicle passing through a Toll Plaza, whether it is a sedan, a bus or a lorry from their significances in the difference in height and width.

The system uses ultrasonic transceiver, traditionally, are mounted with a transmitter and a receiver. The transmitter emits a ping (sound burst) from a certain position and the sound burst which bounces off the object. The receiver then detects the returned signal. Using a micro-computer with a built in timing device to detect the time of flight, it is possible to calculate the length and width of the vehicle and then classified them under their various classes.