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(57) Abstract :

A smart engine lock system typically refers to a security feature in vehicles that allows users to remotely control the locking and unlocking of the vehicle's engine. A Smart Engine Lock System with SMS alert is proposed in this work. The system has two inputs, one is from the vehicle's driver's door lock system sensor and the other is from the alcohol sensor. The controller keeps looking for the output from these sensors. When the driver's door closes it sends a signal to the Arduino. After entering into the vehicle when the driver tries to start the vehicle by using key, alcohol sensor will activate, this alcohol sensor analyzes the breath of the driver. If there are any traces of Alcohol above the set limit, then the system will lock the Engine. The system detects the presence of alcohol in the person's blood and immediately cuts off the supply that is required for the engine to start. At the same time an SMS along with the information of the vehicle i.e., vehicle registration number and Location of the vehicle is sent to the respected owners or heads of authorities. The system reduces the quantum of road accidents and fatalities due to drunk driving in future.

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