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### Abstract:

In this paper an accident prevention system is being introduced with accident identification for vehicles that will give a higher probability to reduce the accidents taking place every day on roads and at the same time if accident occurs, the system will locate its place and will automatically inform those people who will be able to take immediate actions. Here, an Arduino based system has been developed by using Global Positioning System (GPS) and Global System for Mobile Communication (GSM) technology. An accelerometer will also be used that will measure the velocity and the amount of the vehicle's tilting when it will struck over something. When the velocity of the car will be more than the defined maximum velocity for the road or it tilts, a warning will be given automatically. Also, whenever an accident will take place, the GPS will locate the geographical coordinates for that particular place, and using the GSM it will send an SMS. The system is of low-cost and is user friendly.