**Summary:**

The accident prevention and accident location system is used to address the issue of vehicle safety and post accident measures that are currently being deployed. Keeping in mind the immeasurable value of a human life we have invented a simple and effective method to achieve two primary purposes namely,

1. To prevent vehicle collisions by using an automatic brake assist system.
2. In the case of an accident, to bring medical aid to the people in need as soon as possible using the accident location system.

The first primary objective is achieved by a simple distance sensor and electronic brake trigger. The Front sensor measures the distance every few milliseconds. When the distance is reduced drastically the brake is triggered automatically.

The second primary task is achieved with the help of a heartbeat sensor and a GPS location transmitter. In most cases deaths due to accidents do not happen on the spot but mostly gradually due to blood losses etc. Hence the medical response time is vital in saving a person’s life and this system reduces the medical response time drastically. There is a heartbeat sensor which monitors the person’s condition and once an accident is detected, his vitals along with his location are immediately sent to the nearest hospital. Hence an ambulance can be dispatched. However in the case of more than one accident, the ambulance is required to reach the person with more severe injuries. Hence a camera attached to the dashboard will send a picture of the car post the accident for the ambulance to go to the severe accident site.

This can go a long way in determining whether a person lives or not. Hence both these systems serve the purpose of preventing the loss of a human life.