

Self-Driving Cars

The Way of the Future

Self-Driving Cars Self-driving cars will make a tremendous impact in the way people commute. These vehicles will minimize the number of fatal vehicle accidents, allow people to get to a destination faster and more efficiently, and will eliminate the need for people to learn how to drive.



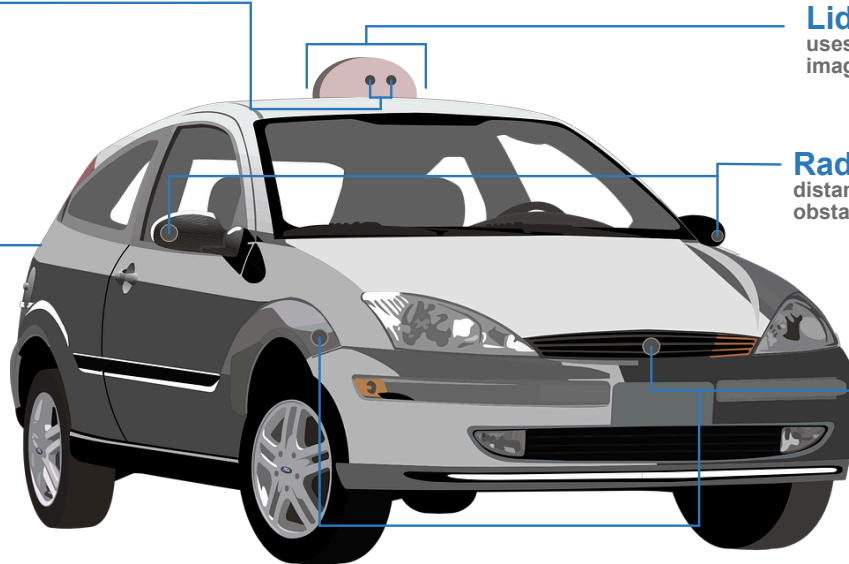
Cameras allow the vehicle to determine the distance between it and obstacles as well as detecting signs, cyclists, and pedestrians

Main Computer analyzes data from sensors and compares it to stored maps in order to find the safest path for the vehicle to take.

Lidar Unit: a spinning sensor that uses lasers to generate a 360-degree image of the vehicle's surroundings

Radar Sensors a measure the distance between the vehicle and obstacles

Additional Lidar Units



HOW IT WORKS

Self-Driving Cars work by the many sensors that continuously gather information about the surrounding of the vehicle. A main computer receives the input from these sensors and analyzes the data to assess current conditions. The computer finds a safe path for the vehicle to go, while following all of the traffic laws, and then tells the vehicles motors to run at the correct speed and direction.



Potential Dangers: Since the car will be driven by an on-board computer that navigates the streets, it has the potential of being hacked. If a hacker were to access one's car, he or she may compromise the safety mechanisms and cause the vehicle to endanger the passengers and others on the road.