

## Concept Generation [Vishvam Pipaliya]

### Function 1: Avoid Collisions

1. Magnets
2. Artificial Intelligence
3. Strong Material
4. Manual control
5. LiDAR sensors
6. Laser
7. Cutter Wheel
8. Vibration
9. Heat
10. Missiles to destroy potential collision objects

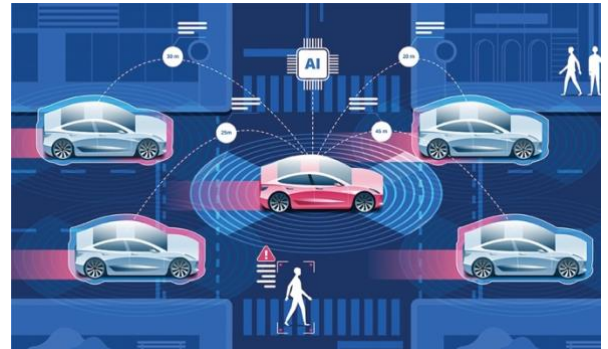


Figure 1: Use LiDAR Sensor to detect nearby objects as seen in cars



Figure 2: Use missiles to destroy objects on the landing trajectory

### Function 2: Detect Terrain Gradient

1. LiDAR Sensor
2. Digital Surface Model
3. Tilt Sensors
4. Inclinator
5. Satellite imagery analysis
6. Terrain measurement system
7. Contouring
8. Differential levelling
9. Profile levelling
10. Direct levelling
11. Indirect levelling

