Lane Management System Requirements

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Requirements
1. Assist drivers to enhance convenience and increase safety while driving.
2. Ensure vehicle remains within lane.
3. Detect lanes and compute the relative position of the vehicle.
4. Take over control from the driver to position the vehicle within a lane if necessary.
5. Be able to function or at the very least not impede the driver when there are non-visible/no lane markings, curvature on road, poor weather/lighting conditions, varying vehicle speeds.
6. Have initiation and resumption features.
7. Warn the driver when vehicle begins to drift out of lane.