REQUIREMENTS

General

1. Vehicle will know the center of the lane
2. Will detect and ignore intersecting lines
3. Lane centering is necessary for lane keeping and lane departing for system to be active
4. Corrective steering can be overridden when driver exerts force on the steering wheel
5. Corrective steering can be turned off
6. Button or switch on steering wheel to enable/disable system

Invariant

1. Turn signal must temporarily disable the system.
2. Speed threshold: minimum 35 mph
3. Always issue warning when system is enabled
4. Visual indicator to indicate when system in on/off
5. Lane departure should always have some audio alarm
6. When lines are not detected, system will turn off
7. Warnings will turn on when the car is started
8. When car is started, there will be a full systems check
9. Painted lane marker on either side of the vehicle