

- **Requirements**

- The systems lights should be aimed towards the direction they are going, not aiming at the ground or at the sky
- The system should enable a user to see more in front of them when driving at night
- The system should lower light levels when there is an oncoming vehicle
- The system shall enable users with a safe driving experience with a strong cybersecurity frame?
- The system should monitor what is in front of the vehicle at all times (constantly)
- The system should display an icon for the user to understand when the system is being used
 - Either a message or an icon on the HUD/dashboard
- The system must detect objects that are going in the opposite direction as the user?
 - Must detect oncoming users/change in environment (curvy, hilly/incline roads)

- **Global Invariant Requirements**

- When the user wants to cancel and manually control the highbeams they should cancel/turn off
- When weather gets worse or road conditions are very bad (fog, heavy rain, etc.) it should cancel and turn to low beams
- When there is oncoming traffic/vehicles it should change to low beam in that opposing vehicles direction
- In the daytime highbeams should be turned off
- If it's daytime and the user goes underbridge it shouldn't turn on highbeams? Or it doesn't get activated under a certain mph
- Update within a certain time frame? Like you don't want it to take 30 seconds to update because then the opposing driver is getting glared for too long which can cause them to crash?

- **Questions for the Customer**

- What happens when a car cuts in front of you?
 - What happens when the car comes up onto bumper to bumper traffic all of a sudden?
- How should the ADB system work in a typical scenario?
- How quickly should the ADB system react when there is a sudden change in scenario?
 - Could you explain why at that time?