Windshield+ is a car windshield utilizing Augmented Reality (AR) to display information to the driver in a unobtrusive manner. It is equipped with multitudes of features to promote safety in driving.
Features:

- Displays the Car Speed (color bar)
  - The semi-transparent bar progresses from green to red as the car speed increases

- Speed Limit detection and Alert System
  - Using sensors and AI, the windshield will be able to recognize the speed limit. If the car speed exceeds 5 mph above the speed limit, the car will emit a noise that will alert the driver, and will tint the windshield red.

- Integrated GPS with Warning System
  - Utilizing both AI and GPS satellites, the directions are displayed directly on the windshield, and with the data from local traffic, warnings are placed on high-risk locations.

- Object Recognition and Outlining in dark or foggy conditions

- Other features:
  - Tinting when hit with sunlight
  - Alert when veering off lane lines
Our Vision:

Promoting Responsibility

Car crashes are one of the leading causes of death in the United States. And some of the most common causes for crashes are speeding and distracted driving, which unlike bad weather, is something that we can work on. Also, GPS can be a source of distraction, depending on how seamlessly it is implemented. Windshield+ can address these issues.

- If the driver speeds above a certain threshold, the Windshield will alert the driver, as a means to make the driver cognisant of their speed. However, it is entirely up to the driver to slow down.
- If the driver enters an area where accidents commonly occur, it will notify the driver, as a means to make the driver more cautionary. Again, it is up to the driver to be extra cautious.

From just beginner drivers to people concerned about their own speeding habits, this product can help keep you alerted!

Promoting Safety

Not all accidents are at the fault of the driver. Some may happen due to the surroundings, such as facing direct sunlight, and driving through heavy fog, or in an unlit area at night. Windshield+ can help mitigate crashes under these hazardous conditions.

A middle-ground between Humans and AI

Many of the sensors used in Windshield+ are used in autonomous vehicles. Although the data is available for the AI to process and act upon them, they are traditionally not available for the driver. AI should fine-tune our driving experience, and act when in desperate need. However, by humans being in the loop, the driver can see all the data that is available to the AI, and still be in control of driving. On the other hand, for those that are skeptical about Autonomous vehicles, Windshield+ can provide an interface to display what an AI would traditionally see.