

Design Requirements

- An acceptable and successful solution to the problem will meet the following design requirements, which are listed in order of importance
- The design requirements below were created through vigorous research of scholarly articles, existing patents, and existing products. Some of the design requirements have come from the survey results, which show the target market. The design requirements put safety as the number one priority in developing this solution to the problem.

Design Requirements:

1. **Design must be able to be used in the dark**
2. **Must be efficient at waking up driver**
 - a. Wake up in timely manner
3. **Must be efficient at detecting drowsy drivers**
 - a. Less than 5 second detection
4. **Must not impair driving abilities**
 - a. As well as turning signals
 - b. Must be able to work around turning
5. **Easy install**
 - a. Average person could install
 - b. Doesn't take up a lot of space
6. **Easy use**
 - a. An average person can use
 - b. A new driver can use