ECE Capstone program
Spring 2017
Summary Project info

Please provide the following information to be shared with on capstone information exchange platform:

1. Project number: S-18-04

2. Project title (as will appear on the poster): No Text-Drive App

3. Team members:
Tejas Bhoir
Prithivirajan Venkateswaran
Mithulesh Kurale
Brett Lechner

4. Adviser(s) name(s):
Hubertus Franke
Hana Godrich
Peri Akiva

5. Up to 10 keywords that will help to classify the project:
Android, application, texting, driving, Bluetooth, mobile, software, engineering

6. Project abstract (up to 200 words) to be shared with judges:

We developed an app that can facilitate the silencing of notifications to help reduce the frequency of distracted driving. While there are apps that currently achieve this, they were found to be less than ideal. The current implementation from Apple automatically turns on "Do Not Disturb While Driving" once a Bluetooth connection with the car is established, however, once that connection is lost, the user must manually re-enable notifications. Similar, AT&T has an implementation where notifications are silenced once the phone is detected to be moving at 15 MPH, however, this does not take into account if the user is using public transport or riding as a passenger in another person's vehicle. Our app will be able to recognize when to be in an active state, and when not to be. The active state is triggered by a two step verification process. When there is an active Bluetooth signal between the car and the phone, and the phone detects movement greater than 10 MPH, the app will become active. When it is active, it will silence any notifications that the phone receives and will send a reply message to any call or message. When the phone no longer receives the car Bluetooth signal or it detects no movement for 80 seconds, the app will stop silencing notifications. Our goal was to create an app that is the most seamless experience for the user, that both reduces the risk of being in a phone related car accident as well as be automated so that the user never has to worry about turning the app on or off.