

WEEKLY REPORT and MEETING AGENDA

Report #:5
Date:4/4/2022

Project Name: vBox: Vehicle BlackBox
Prepared by: Lids Su

Agenda for the weekly meeting

1. Refine the data output to the more ideal format.
2. Talk about the design of our web app.
3. Talk about how to properly debug the web app.
4. Talk about what data we need to successfully analyze and profile the driver's behavior.
5. Add Google Map API features to the output data of the blackbox.

Accomplishments during this period

1. Cleaned up driver scoring algorithm.
2. Got the Google Map API working better.
3. Added GPS coordinates to the output csv file.
4. Wrote the program that runs concurrently the obd, gps, and the imu.
5. Started the addition of the code for the pi camera.

Plans for next period

1. Work with the Raspberry Pi's full sensor system to identify which certain values need to be pulled to test the algorithm script.
2. Assemble the camera to blackbox.
3. Ensure proper picture taking and connection of the camera.
4. Show GPS coordinates to the front end.

Project management status

1. Finish Critical Design Review and Presentation. Templates on the Drive
2. Regular meeting on Tuesday
3. Meet with Professor should there be any confusion and need for help
4. Regularly updated Google Shared Drive
5. Regularly updated project github

Minutes from previous meeting

We went over the details of previous development stages and created a comprehensive project CDR along with the presentation.

We went over the needs and solutions to embed google map API data to the output file.

We went over the design timeline and expected delivery time of our project.

We tested and discussed the front-end, determined how to improve the appearance and debug the application to enhance user experience.

Lastly, we talked about ways of adding gps information to the output file of the blackbox.