

## EE/CprE/SE 491 Weekly Report 9

Group: sddec19-14

Client & Advisor: Danfoss Power Solutions(Radek) / Dr. Alexzander

### Team Members:

Omar Abbas - meeting scribe/report manager

Dennis Xu - chief engineer/meeting facilitator

Aaron Michael - chief architect

Jonah Bartz - continuous integration

## User Information Augmentation

4/19 - 4/26

### Weekly Summary:

Coming to the end of the semester, we are finalizing our project plan and design document so that we are ready to go for the next semester. Overall, we feel very confident in our endeavour as we have gotten plenty of hands on work and tested the waters in order to have a solid, concrete plan to be executed in the coming semester. We are left with a variety of ways to go about things such as using tensorflow or OpenCV for object detection but these are independent variables that can be changed at any time

### Past Week accomplishments:

#### Omar Abbas:

- Managed to install Tensorflow on to Jetson tx2
- Simulated tensorflow example to recognize handwritten numbers
- Composed slides for our senior design presentation

#### Dennis Xu:

- Looked into determining whether we could use a Intel Quark
- Started work on design presentation
- Worked on Project Plan revision

#### Aaron Michael:

- Worked on design presentation.
- Started code for projecting information onto the windshield.

#### Jonah Bartz:

- Created presentation slides in google docs

- Started working on what to present testing wise
- More development with tobii to demo simple example

### Pending issues:

- Learning OpenCV library which will allow us to perform image detection using the TX2.
- Use OpenCV to detect objects in front of the TX2, and use Tobii Eye tracker to determine whether the person saw the object or not.
- Waiting for projector to be delivered
- Practice for presentation
- Rework our design document such that is perfected and ready to go
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### Individual contributions:

Name	Individual Contribution	Hours since the last report	Hours Cumulative
Omar Abbas	Tensorflow, Presentation	3	35
Jonah Bartz	Tobii, presentation	2	34
Dennix Xu	Looked into alternative's to the intel Quark and presentation	2	38
Aaron Michael	Presentation, HUD display	3	31

### Plans for upcoming week:

Practice presentation as a whole and present to faculty on Tuesday.