EE/CprE/SE 492 Biweekly Report 3

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

9/28 - 10/11

Biweekly Summary:

In the past two weeks we have gotten the framerate of object detection up to 20+ FPS. Additionally, the group has started on the interpreter which will take data from object detection and eye tracking to determine what to send to the GUI for display on the windshield.

Past Week accomplishments:

Omar Abbas:
- Wrote socket communication to export object coordinates to our medium.

Dennis Xu:
- Looked into the potential of creating our own simple tobii eyetracker
- Worked on connecting the jetson and a laptop together through ethernet so that they can communicate with each other
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Aaron Michael:
- Looked into reusing Tiny Yolo functions to aid in GUI development for displaying objects.
- Continued GUI development.

Jonah Bartz:
- Worked on connected laptop to jetson to pipe data
- Already have eye tracking coordinates, so trying to format it so it is easier to read

Pending issues:
- Setting up pipes to send data to the interpreter.

- Looking into if there is an english version of Windows for LattePanda.

Individual contributions:

Name	Individual Contribution	Hours since the last report	Hours Cumulative (Both semesters)
Omar Abbas	Sockets	4	51
Jonah Bartz	interpreter/sending data	3	45
Dennix Xu	Created connection between laptop and Jetson	6	52
Aaron Michael	GUI development	5	46

Plans for upcoming week:
- Connect the system together
- Work on interpreter to process data
- Display information using the GUI