

EE/CprE/SE 492 Biweekly Report 2

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

9/13 - 9/27

Biweekly Summary:

In the past two weeks we started getting all of the sensors up and running. We've done testing on the latte panda and decided to drop it and started implementing the code to collect the data from the sensors.

Past Week accomplishments:

Omar Abbas:

- Fixed low framerate object detection by switching to TinyYolo

Dennis Xu:

- Started implementation of the integration code
- Confirmed functionality of eye tracker and cameras

Aaron Michael:

- Tested tutorial GUIs from various frameworks and languages. Decided on using C++ and currently pursuing OpenGL and OpenCV to assist in developing the GUI.

Jonah Bartz:

- Connected peripheral camera vs using the on board one.
Working on isolating just the boxes on object detection

Pending issues:

- Integrating all modules, collecting necessary data, and unifying them under a GUI
- One camera's USB port is bad so that might need to be replaced

Individual contributions:

Name	Individual Contribution	Hours since the last report	Hours Cumulative (Both semesters)
Omar Abbas	Fast object detection	8	47
Jonah Bartz	Connecting camera Isolating object detection	4	42
Dennix Xu	Camera debug and eyetracker	5	46
Aaron Michael	GUI development	6	41

Plans for upcoming week:

- Get data from TensorFlow
- Look into what data we can get from the Tobii EyeTracker
- Dr. Daniels suggested creating a basic driver for getting data from the Tobii, we will allocate some time to see if this is feasible in the timeframe of our project.
- Continue working on GUI