

15-400 Project Milestone

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1 Major Changes

My project is shifting focus from a classification task to that of building a robust eye gaze system. This is further outlined in the Surprises/Future Milestone Revisions section.

2 Progress

I was able to locate the objects within the scene using april tags. I also set up Vive to provide a ground truth from which to compare the head pose. I also setup the head camera and gaze system using the Pupil Capture software.

3 Relation to Milestone

I have all of the components I need to finish the system. Now I simply need to combine all of them into a use-able output format and get an accuracy bound on the head location.

4 Surprises/Future Milestone Revisions

I will be focusing more on the validity of the head positioning system and general system setup rather than classification. There have multiple delays with the ROS components and the the pipeline I am dependent on is not fully tested so I will instead make sure the system is robust to future uses.

5 Resources Needed

Two lab members are working on a pipeline to process the data I provide to identify the object that the person is looking at through ray tracing. I will need this pipeline to work with my data.