

Weekly Report #4

CPR E 491
Team 26
Robot League
10/24/2021

Members:

Brogden Worcester - Client interaction

Dalton Holdredge - Document submitter/creator

Noah Brooks - Hardware team leader

Joseph Holtkamp - Software team leader

Jordan Suby - Individual component design

Cheyenne Smith - Team organizer

Tejas Agarwal - Finance officer

David Quan - Progress coordinator

What we've accomplished in the past week / what we've been researching:

Brogden Worcester - Reviewed Gitlab, inquired about electronic parts, light research on lazer cutting and CNC milling on campus, researching how to connect a speaker to the Raspberry Pi.

Dalton Holdredge - Researching machine learning and how to optimize it on RPi 4. Created shapes to be used on top of the robots for object detection.

Noah Brooks - set up the pi for the object detection part looked into object detection.

Joseph Holtkamp - This week I completed a tutorial on flutter app development and began researching computer vision technology.

Jordan Suby - Finished all videos on machine learning Coursera Course, as well as one of the readings.

Cheyenne Smith - Researched docker, flutter, and machine learning topic.

Tejas Agarwal - Researched for the IR sensors and some electronic components

David Quan - Continuing machine learning and flutter.

What we're planning to do in the coming week:

Brogden Worcester - Understand fully entire process to 3D print, laser cut, or CNC milling. Find a tutorial for the specific speakers we borrowed from ETG. Get answers about some old electronic equipment. Find instructions on the digital displays for the Raspberry Pi.

Dalton Holdredge - Fully classify a library of images for the ML model on the RPi and be able to identify them accurately (>90% of the time). Find out how long the current model takes to classify images, on average.

Noah Brooks - Help fully classify a library of images for the ML model on the RPi and be able to identify them accurately (>90% of the time). Find out how long the current model takes to classify images, on average.

Joseph Holtkamp - The app dev team is going to begin creating well defined deliverables to create basic structures on which to build our application from. I will be focusing on learning docker and computer vision software.

Jordan Suby - Continue research, especially flutter and machine learning. Hopefully writing some test code as a part of that if I have time.

Cheyenne Smith - continue researching flutter, docker, and machine learning

Tejas Agarwal - continue with the research and shortlist them to get some samples for the prototype

David Quan -Keep learning software

Issues we had in the previous week:

Brogden Worcester - midterm tests and 4 kids with a cold.

Dalton Holdredge - The RPi is not able to be accessed via WiFi right now for some reason.

Noah Brooks - none

Joseph Holtkamp - Poor time management. Working on it.

Jordan Suby - Haven't been feeling well over the weekend so I missed a team meeting on Friday

Cheyenne Smith - other classes had higher priority

Tejas Agarwal - Exams and assignments from other classes are taking too much time.

David Quan - Nothing