

# Weekly Report #5

CPR E 491  
Team 26  
Robot League  
10/31/2021

## 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 - Found a circuit model to use the speaker. Planned a model for 3D printing or CNC cutting. Worked on presentation on Tuesday.

Dalton Holdredge - I have taken 125 photos to train the model, and I am in the process of classifying the objects in the images right now. By the end of the night (Sunday) I plan to be finished classifying the objects in all 125 images. I acquired a touch screen monitor for the RPi, which will likely be used in the final project for a UI on the arena.

Noah Brooks - almost to the point of having the applicable data set to a GUI

Joseph Holtkamp - This week I created the baseline application in Flutter and began experimenting with the Dart code that it is built with.

Jordan Suby - Continued reading about Machine Learning and downloaded Flutter so that I can begin experimentation.

Cheyenne Smith - Tiny bits of Flutter research

Tejas Agarwal - Worked on the machine learning on coursera

David Quan - Still working on machine learning coursera and starting to see what flutter is and how it's used

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

Brogden Worcester - Get trained with the EE lab through ETG. print model in either a 3D printer or CNC / laser cutting. Reach out again about old electronics parts. Work closer with Dr. Rover on Slack or other communications methods.

Dalton Holdredge - Completely finish classifying the images and train the machine learning model. Be able to run the model on live video to be able to visualize the classification and the classification speed.

Noah Brooks - finish the data streaming

Joseph Holtkamp - I plan on learning how to separate widgets in Flutter into different files, how to change views and widgets being displayed, and how to add video widgets.

Jordan Suby - Write and push to Git at least some sort of Hello World program using Flutter. If that goes smoothly then progress to actual project related code.

Cheyenne Smith - Should have more time after Wednesday to dive more into Flutter practice.

Tejas Agarwal - Continue the coursera machine learning course

David Quan - Work with teammates and possible create something with flutter

## Issues we had in the previous week:

Brogden Worcester - Family trouble at home.

Dalton Holdredge - We couldn't connect to the Raspberry Pi over WiFi until we received the RPi monitor, which allowed us to troubleshoot more easily and get the WiFi connected. I classified all of the images last night, but I need to start over with different software since the bounding boxes data is stored in the incorrect format. I had some assignments in other courses that took priority for a few days, so I wasn't able to work on this project much until this weekend.

Noah Brooks - the inability to open cv2-tools for writing a data streaming application.

Joseph Holtkamp - None. Just working on making more time.

Jordan Suby - Just the usual competition for my time with other assignments but nothing too derailing this week and now that those are done I should have plenty of time going forward.

Cheyenne Smith - Huge assignments for other classes that took up the majority of my time.

Tejas Agarwal - Been busy with other assignments that are taking way too much time.

David Quan - Working on interviews