

Journal Report 5

9/30/19-10/06/19

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Computer Systems Research Lab

Period 2, White

Daily Log

Monday September 23

I used a VGA-HDMI cable and connected my Raspberry pi to the monitor in the sys lab. The settings and cable combination must have allowed for whatever error I was facing before to resolve itself, and I spent the class installing Raspian-full onto the Pi.

Tuesday September 24

Absent

Thursday September 26

I researched how to integrate the use of Raspberry Pi cameras with the Pi, and found that USB cameras like the Logitech one we purchased are compatible with the driver as well. I looked into how to set up both of the cameras.

Friday September 27

Didn't have access to Sys lab computers, spent time playing around with the HSV masking values to see how I might be able to change the background of the Perplexus to filter out glare and brighter colors. Obtained updated HSV values to use for when I get a consistent stream of images to test on.

Timeline

Date	Goal	Met
Today minus 2 weeks	Complete the implementation of the Hough Transform with respect to the HSV Masking	Decided to move onto a different course of action, i.e using RasPi
Today minus 1 week	Complete setup of Raspberry Pi	No, but I am close to meeting goal
Today	Set up Raspi + begin to obtain a sequence of images taken from consistent angles to run my code through during testing phases	Yes, I completed setting up the Raspberry Pi and am working on the image sequence.
Today plus 1 weeks	Research and set up camera	
Today plus 2 weeks	Try different methods of glare reduction	

Reflection

A variety of variables are at play in this project. My partner and I are both learning more about the hardware that we have to use and are coming to realize the project has more layers than we initially expected.