Journal Report 4 9/23/19-9/30/19 Sarah Gu Computer Systems Research Lab Period 2, White

Daily Log

Monday September 16

Absent

Tuesday September 17

I finished downloading the Noobs Software onto the Raspberry Pi memory card and am looking into how to correctly set up the Raspberry Pi using a monitor. I located some cables in the Sys lab for me to begin setup with, but none of the monitors are HDMI compatible. I plan to go home and complete setup on a monitor I have.

Wednesday September 18

I plugged in the raspberry pi to a HDMI compatible monitor, and used a microusb charger to supply power to the Pi. I also connected a USB keyboard. Upon first boot, the Pi's red light flashed on, and the green light blinked sporadically. Nothing showed up on the monitor. I read into the issue and found that it might be caused by an insufficient power source or a incorrectly installed driver.

Thursday September 19

I reinstalled Noobs onto the driver in attempts to remedy any issue that might be preventing a bootup of the monitor. Then, I plugged in the monitor once more, only to receive the same black screen. Upon further investigation into the issue, I found a solution that mentioned going into the config.txt files and uncommenting certain lines to allow for the correct output format to be read. After adding the line hdmi_force_hotplug=1 to the config.txt, I plugged in the monitor with an HDMI -HDMI cable once more but the screen still remained black.

Timeline

Date	Goal	Met
Today minus 2	Locate the silver ball consistently and	No, I changed the method I want to
weeks	save coordinates	use for identification of the silver ball,
		and spent my time on that implemen-
		tation
Today minus 1	Complete the implementation of the	Decided to move onto a different
weeks	Hough Transform with respect to the	course of action, i.e using RasPi
	HSV Masking	
Today	Complete setup of Raspberry Pi	No, but I am close to meeting goal
Today plus 1	Set up Raspi + begin to obtain a se-	
weeks	quence of images taken from consis-	
	tent angles to run my code through	
	during testing phases	
Today plus 2	Research deployment of Python code	
weeks	to Raspi	

Reflection

I am continuing to familiarize myself with the Raspberry Pi, and am learning more about what I need to do to make the hardware work. I tried a lot of different methods of debugging this week and overall am continuing my research through increasing my knowledge of the tools that I will be using throughout the rest of the year.