Journal Report 15 1/20/20-2/2/20 Rishabh Misra Computer Systems Research Lab Period 2, White

Daily Log

Tuesday January 21

Continued looking into Raspberry Pi Camera documentation, particularly with regards to how I can use it to meet my needs.

Thursday January 23

Looked into deeper camera documentation, including special functions like filtering - decided I wouldn't be using these in my project.

Started writing code for the camera, particularly with regards to the ability to take pictures. As can be expected, I got errors because particular libraries aren't installed on my computer and I couldn't test my code.

Wednesday January 29

Revised camera code to save pictures in particular locations where I want them and implemented the ability to start running my smart pantry processing system (barcode+logo detection and lookup) on images taken from the camera.

Thursday January 30

Worked on slideshow for syslab talk next week.

Timeline

Date	Goal	Met
1/16/20	Talk to Dr. White about getting Rasp-	Yes; Learned how to program Pi cam-
	berry Pi camera and while waiting	era module to my needs and began
	look into how to program Raspberry	linking it to my current system. Rasp-
	Pi camera module and linking it to	berry Pi camera module V2 ordered.
	my current system	
1/23/20	Hopefully receive and set up Rasp-	Yes/No; Didn't receive camera, but
	berry Pi camera module. If it doesn't	finished writing code for it
	come, finish writing code to imple-	
	ment it with my current system. If	
	it does, that can get pushed to next	
	week.	
1/30/20	Finalize implementation of Rasp-	Yes/No; Have code for taking pic-
	berry Pi camera module and fully	tures and having them be processed,
	link it to my current processing sys-	but not able to test because I don't
	tem. Be able to take pictures and have	have the camera.
	them process through my system.	
2/6/20	Receive camera and test camera sys-	
	tem to see if it's working as it should	
	- make adjustments as necessary.	
2/13/20	Make final adjustments to camera	
	system, create fully linked system.	
	Once this is done, move forward with	
	the project (meet with Dr. White to	
	talk about directions - right now I	
	think what I want to do next is refin-	
	ing multiple product integration)	

Reflection

I didn't have a lot of tangible progress these two weeks, because the camera that I ordered hasn't come into the syslab yet. However, I do have code written for the camera, so when it does arrive (hopefully this next week), integrating it fully into my current system should move quite smoothly unless something unexpected happens. I've adjusted my goals for the next few weeks to reflect this, and I definitely think I am still on a good pace for TJ STAR.