Raymond Dang

N01048235

December 22, 2017

Github Repository: https://github.com/arZone1/InfraredSensors

Infrared Sensors

In the weeks leading up to the demonstration of my infrared sensor project the tasks that have been completed to date are the build video of the sensor working with the raspberry pi. The group placard describing our project was made and published to the blog. Buying and receiving all the parts that are needed for my project build in my case I needed to order the Raspberry Pi and the infrared sensors off of Amazon luckily with Amazon prime I had received my kit in two days. Soldering the PCB and testing it will all the modules that are included with the kit.

Following the project schedule that was created I am on track on meeting deadlines and making this project work. Also following the guidelines on the class repository and ensuring the project is meeting all the deadlines on a week by week basis.

Working in a group allows us to use each other as resources and guidance with questions regarding the project, alongside my partners Kevin, Kyle and Saber. As of now the robotic vacuum will be utilizing three sensors, infrared sensor, ultra sonic sensor and time of flight we want to be able to combine all three of our sensors together and make a functioning robotic vacuum. During the build and testing of the infrared sensor module I had encountered a problem and it wasn't reading the input when something was near the sensor. I had an output wire on the module connected to a wrong pin on the Raspberry Pi and the IR was not detecting. To solve the issue of the sensor not getting any detection I referenced the Raspberry Pi GPIO header pin sheet and seen that I had connected it to the wrong pin on the GPIO fixing my wiring mistake I was then able to start getting detection through the sensor and seeing it on my code. The current cost of the project has not been exceeded more than what was needed on the budget; it was actually less. The only parts that were needed to purchase were the Raspberry Pi 3 kit, and the Infrared sensor modules.

Articles used in reference to IR:

https://circuitdigest.com/electronic-circuits/ir-sensor-circuit-diagram

Github links: https://arzone1.github.io/InfraredSensors/

https://arzone1.github.io/InfraredSensors/