Student Name : Leanne Ahern

Project Repo URL : https://github.com/OpinionatedHeron/assignment2-rearview

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| Grade Band | Combined Knowledge | Networking Technologies | IoT Solution | Communication |
| Base | I use a variety of program strands- mainly Linux and Python from CompSys and HTML from Web Dev | I have basic connections such as connecting the SenseHAT to read accelerometer | Have multiple sensor focused detection – PiCamera and SenseHAT accelerometer | I have a README and video recording |
| Good | I tried to used a variety of different modules from CompSys – specifically regarding the RPi – using the SenseHAT, camera, and BLYNK modules specifically | For wireless protocols, I have a HTTP server and have used TCP/IP networking to stream the video | I have a number of classes that process data – ie VideoOutput and DetectMovement | I have built a GitHub repo with deprecated versions and additional docs |
| Excellent |  | I have some minor API programming by creating a JSON file to store the data if Blynk breaks | I tried to include some additional features to be production ready – such as the inclusion of Threading | I have included resources and videos that I used to build the device |
| Outstanding | I did a lot of self-learning for this project – shown by the sources linked in my GitHub repo to understand Object Detection and Video Streaming. | I integrated a BLYNK dashboard for remote monitoring – though this did have some issues when I was implementing it. | It is a novel solution for car safety, that combines multiple IOT elements |  |

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Additional Comments: I found this to be an extremely difficult project. I spent a lot of time trying to understand source code from different resources. I relied a lot on the work of others, put I worked hard to make the documentation my own and create a unique version of previously created devices. Some aspects of the Networking Technologies still confuse me, but I am glad that I created something that functions as expected, even if there is still a lot of room for improvement – such as improving the lag and issues with the framerate.

Table

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