OCN418

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Semester Summary

Project:

Gas Sensor on Car (CO, CO2, O3, VOC, Temperature/Pressure/Humidity)

Progress:

Sensor circuit board is ready to go. I just finished designing the housing of circuit board and RPi. Once the housing is printed, the sensor will be ready to go.

Learning Summary:

Through this semester, I learned and improved my python skills, circuit design, and 3D printing housing design. Although I have not finished with my sensor packaging, this semester has been really rewarding. Personally, I think that physically putting sensor package together is the most difficult step of developing a prototype. Thinking and coding are relatively easy and simple. Putting the sensor package and circuit board together requires much more thoughts and consideration of “real world” situation. In my case, I have five sensors and ADC to fit on a circuit board. It was challenging. (In fact, I wasted 3 boards…) I am happy that I was able to almost get the full experience. I will continue to finish my sensor packaging and proceed to data collection. I am still curious to know how traffic will affect exhausted gas concentration. This project will reach its fullest capacity with future data collection and analysis.