Client statement

Project idea - pseudo smart car

* Telemetry data from OBDII (speed, gas, indicators.. etc)
* GPS module
* IMU - retrieves z axis data for pothole detetction
* Send collected data to website for traffic analysis
* Using wireless communication protocol to receivers near traffic lights in order to facilitate real time traffic control

Questions

* What data does the city of Regina currently collect?
* How is this data collected?
* Do you know any privacy regulations that are used in Regina/Canada that apply in this scenario?
* What determines the timings on the traffic lights?
* Is there any technology used currently for real - time traffic control?
* Can emergency vehicles trigger traffic lights? If so, how?

Hello Mr.Ravada,

As Dr.Laforge mentioned in the previous email my name is Sarmad Alvi, I am in the ESE program at the UofR. I’ve CC’d my partner, [Mubashir Hussain](mailto:hussainmuby@gmail.com), in this email.

Before we start, we wanted to thank you very much for willing to help us with our capstone project.

Our project idea is an IoT device to collect data from a car for data analysis. The device would collect vehicle speed, gas and other relevant data from a car’s OBDII port. The device would also collect GPS data, and use an accelerometer for detecting potholes. The data would be sent to a website where it could be used to analyze traffic within the city.

Another portion of the project involved using the communication capability of the device to connect to receivers connected to traffic lights and facilitate real time traffic control.

We have many questions regarding the traffic control systems and regulations used in Regina.

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