Smart Speed Limit Sign

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Project Goals

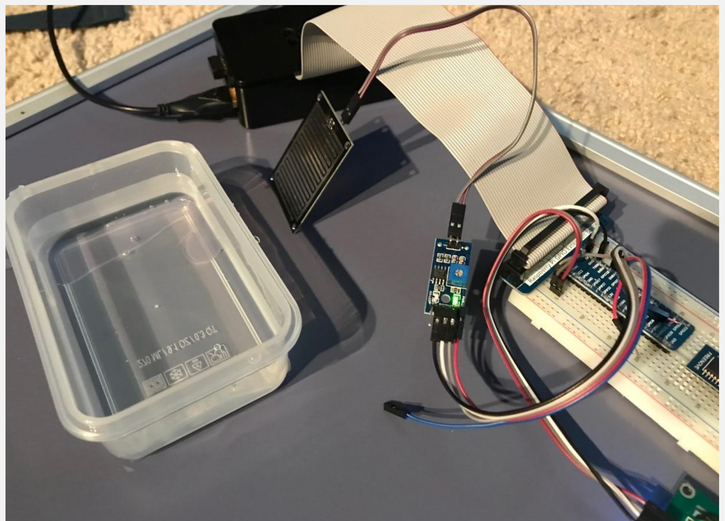
The Smart Speed Limit Sign (SSS) is designed to help mitigate the excessive amount of accidents scattered throughout the United States. By taking in various inputs from the surrounding environment, the SSS will be dynamic in nature and simple to follow

Progress

✔ Wired rain sensor to Raspberry Pi and tested outputs in response to the amount of liquid.

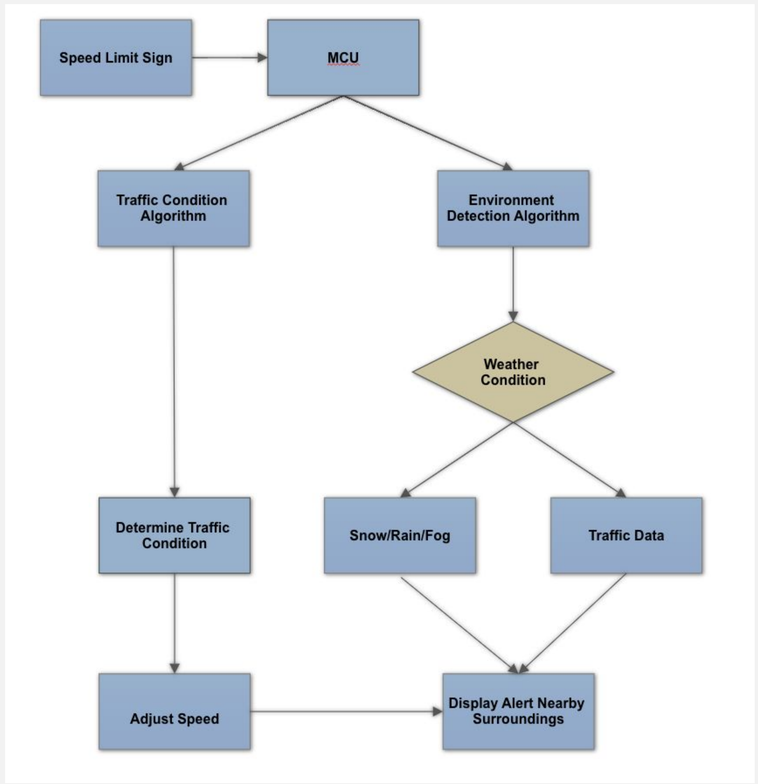
✔ Written code that demonstrates temperature input interfacing with console output

✔ Formulated ideas/written pseudo-code to imitate how our other sensors will detect specific weather conditions like fog and traffic



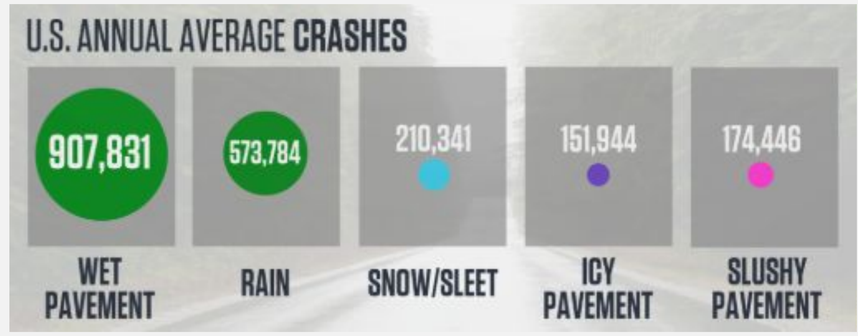
Control Flow

Visual representation of the SSS software layout, which will determine environment and adjust speed accordingly



Motivation

Crashes associated with only rain and snow in the United States



Challenges and Ambitions

- Distinguishing environment attributes
- Humidity vs Visibility
- Traffic monitoring
- Enclosing every part into one, clean design
- Syncing with smart and modern car technology

Timeline of Project