I pledge my honor that I have abided by the Stevens Honor System.

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SSW555 Homework 11

Investment Theme: software and hardware for a driverless car

Epic(describes strategic intent): providing consumers with a safe, autonomous vehicle

1. Feature/Release: Consumer can adjust car’s driving settings
   1. Story: As a driver, I would like to control the maximum speed limit for highway driving.
      1. Task: The driver will be able to change the car’s max speed at any time via an adjustment on the steering wheel.
   2. Story: As a driver, I would like to control a switch that can switch lanes that the car is operating in.
      1. Task: The car will have a switch built into the turn signal that can trigger a lane change when toggled.
   3. Story: As a driver I would like to be notified if there are objects or vehicles close to my car.
      1. Task: The car will display a light on the dashboard and have an audible alert for the driver if something is too close to the car.
   4. Story: As a driver, I would like to adjust the ABS based on the weather or terrain.
      1. Task: On wet or slippery roads, the car must have an option for a safer driving mode with ABS.
   5. Story: As a driver, I would like to be able to modify the duration or pattern of my horn.
      1. Task: The car must be able to modify the length of the horn’s honk.
2. Feature/Release: Consumer can manually override the autonomous driving
   1. Story: As a driver, I would like to press a button so that my car will autonomously park.
      1. Task: The car will park itself when the self-parking button is pressed.
   2. Story: As a driver, I would like to be able to turn off the self driving feature so that I can drive myself.
      1. Task: The car will confirm the user wants to turn off self-driving.
      2. Task: The car will turn off self-driving and the driver will have control over the car.
   3. Story: As a driver, I would like to be able to override the system so that I can adjust the car.
      1. Task: The car’s auto-driving must be able to be overridden.
   4. Story: As a driver, I would like to be able control the braking of the car so that I can slow the vehicle down manually.
      1. Task: The car will slow down when the consumer places his or her foot on the brake.
   5. Story: As a driver, I would like to be notified if there are conflicts in the system and be prompted to resolve them.
      1. Task: The car will respond to the user’s input and listen to their direction over the car’s direction.