 ***MSIM 603: Simulation Design***

***Department of Modeling, Simulation and Visualization Engineering***

***Old Dominion University***

**Programming Assignment Three**

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**Programming Assignment Three**

***Problem:*** You are to convert either the Car Following Example or the Chip Manufacturing Example to an Object Oriented Design.

***Software Approach:*** Your software should use an object oriented programming approach.

***Deliverables:***

* Simulation design. This deliverable should include a description of the organization of your software (consider how you partition the program into .h files), a behavioral description of your major methods, and an algorithm description (either pseudocode, mathematical equations, or flowcharts).
* Simulation implementation (Visual Studio project directory).

**Grading:**

Implementation: 20 pts

**SIMULATION DESIGN**

The reorganization of the Car Following example into an object-oriented design is structured so that a user of the code can only provide the number of cars and receive data via the console. The car functions should be accessible only to the Road Class. The design is captured in the following diagram:

Note to Professor:

I ran out of time.