**CS585 Project Presentation Grade Sheet**

*10 pts* Specific Task Identified and Clearly Articulated

*10 pts* Measurable definition of success that matches the stated task

*5 pts* Data clearly described

*10 pts* Prior Knowledge and Assumptions clearly stated

*25 pts* Description of technical approach, key steps and how those steps contribute to the task

*25 pts* Description of results, as evaluated against the stated measure of success

*10 pts* Discussion of project success (or why project did not go as planned)

*5 pts* Presentation stays within time limit (12 min + 3 min for questions)

**CS585 Project Presentation Outline**

1. Identification of Task *-P1*
   1. Car Detection + Speed Identification
2. Definition of Success *-P1*
   1. Of cars, percentage detected
   2. Of detections, percentage incorrect
   3. Reasonable Speed Identified
3. Description of Data including Prior Knowledge and Assumptions *-P2*
   1. KITTI Dataset
   2. Assumptions
      1. The nature of cars – continuous movement, smooth
      2. Constant position of the camera
4. Overview of Tasks  *-P2*
   1. Broken into 3 pieces
      1. Car Detection & Tracking
      2. Optical Flow
      3. Speed Math & Assigning to Cars
   2. How are these combined for the final result?
5. Technical Explanation of Car Detection *-Allan*
   1. Detection
   2. Template Tracking
6. Technical Explanation of Optical Flow *-Ashley*
   1. Over the whole image
   2. Identify car rectangles
   3. Find average vector
7. Technical Explanation of Speed Calculations *-James*
8. Explanation of Results compared to Success Metrics *-P3*
9. Discussion of Project Success *-P3*
   1. Car detection is harder than we thought
   2. Some success even with just one camera instead of 2 is important