**Homework #4 Report  
[EECN30168] Self-Driving Cars 2022**

**Student ID:** 311605004 **Name:** 劉子齊 **Date: 2022.10.26**

1. **Introduction**

In this homework, our goal is to apply the Kalman filter we implemented in the previous homework on a real set of self-driving car data. Furthermore, we need to visualize the result through “rviz”.

1. **Result**
2. **Discussions**

**3-1. Design of the Kalman filter and the Parameters**

**3-2. Covariance Matrix of GPS & Radar Odometry**