

Team 5 - Proposal Feedback

Abstract

Excellent abstract. The goals and methodologies are well summarized. Well done!

Introduction

Motivation and Background

Do the different power trains have characteristics that would result in different platooning behavior? The statistic regarding the 143 billion gallons of motor fuel needs a citation. Great job motivating the problem and providing background on team member interest and capabilities.

Focus of the Study

The focus is good. Ideally, it would have been nice to add a little more detail in discussing "...the optimal way to implement platooning...". Specifically, at this point in the proposal, I'm wondering what it is you will be optimizing.

Relevant Literature

Moving forward, you will need to cite the specific reference related to the points you are making in Section IV. Additionally, when you've properly formulated your optimization, you will need to compare/contrast your formulation with other approaches.

Statement of Work

I love the description at the beginning of the SOW. Choosing to focus on one power train model first is absolutely the right choice as this ensures that you will leave adequate time to complete the optimization-related tasks before spending effort to consider other power trains.

The proposed tasks are reasonable and are logically sequenced

Summary

Excellent summary which provides further detail on the optimization.

Overall Feedback

You guys are in great shape. You have a clear idea of how to proceed and you've already thought through the high level formulation of the optimization (objective function, decision variables, etc.). Keep in mind that, depending on the formulation of the problem, a solver other than CVX may be needed to determine an optimal solution. I can offer some suggestions regarding this. For the progress report, I'd like to see a preliminary mathematical formulation of the optimization problem.

Well done!

Score

5/5