

Dream Team Acceptance Testing Problem Report

Due to unexpected delays involving the implementation of our code and access to the Dagne vehicle for testing we are unable to perform a test on the vehicle itself and automated unit tests have not been written. However, we will be performing a test of the code we have written for the steering control system.

Instead of testing on the video, a test harness has been constructed using another arduino. This means our test will have two arduinos, one is the microcontroller as would be put in the car, the other simulates the inputs and outputs of the vehicle. We are able to simulate the steering control and receive the proper outputs from our microcontroller code. The outputs are confirmed by LEDs that help visualize the PWM output for the steering system and can be verified through serial logging from the Arduinos.

In addition, a large portion of our project is the design documentation which can be found in the GitHub repository (<https://github.com/aaguil10/ElectricVehicleMicroController>). We consider this document as our user documentation as the user of our product is future vehicle developers.