

May 28, 2024

Dear Villanova College Car Club members,

I'd like to take this opportunity to congratulate your team on writing and submitting an engineering report to qualify for the Dennis Weishar Engineering Design Award at the 2024 Waterloo EV Challenge. Yours was one of the few schools that submitted a report and I want to take a few minutes to acknowledge the time and effort that you invested.

The judging process for the Engineering Design Award was different this year in that we had more teams qualified and only one judge available at the race. As a result, we selected three teams as finalists based on their engineering reports, and these were the teams that were interviewed for the award. In the future we plan to have additional judges available so all teams that submit a report will be able to make their presentation at the race.

I did enjoy reading your report, and in particular the development of a instrumentation and control system for electric vehicles. I was impressed with the level of detail that you showed in the documentation presented on GitHub for the programming, setup, and operation of the LEADS system. I hope you have an opportunity to continue this work as you make improvements to your current vehicle systems and design and build new vehicles in the future.

One point of feedback for your team would be to make sure to conduct measurements and present data to verify that your new approach works. Verification, data presented as evidence of success, is a key element in all successful engineering reports. Also in the future please make sure to submit the report as a standalone, written document in PDF format.

I hope that you enjoyed working towards and attending the 2024 EV Challenge and I hope that you are planning to come back next year. I also look forward to reading your next Engineering Design Award report.

Sincerely,



Peter Teertstra, Ph.D., P. Eng.
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