Dear Nijkerk Electronics,

As the Powertrain Department, looking back on our Delft Hyperloop journey, we would like to take a moment to reflect on how your support helped us, and to thank the companies and people who contributed to our department's success, and therefore to the success of our entire team.

As our partner and often as an advisor, with this letter we want to highlight and showcase how we as powertrain relied on your support, expertise and products. Which allowed us to be a strong backbone of the team, enabling Delft Hyperloop to become the first student team in the world to successfully demonstrate in the EHC and become world champions by winning the EHW.

At the competition we as powertrain provided a strong foundation which the rest of the engineering departments could build on, leading Delft Hyperloop to be awarded the Overall Award, the highest recognition of the competition, as well as the Levitation Award for engineering and design.

Furthermore, we won a reward in the research, namely the Technical Full-Scale Award where we looked in to banking methods for a full scale hyperloop system, and we won the Social Media Award by creating the best social awareness. These achievements reflect the results of a full year of development, testing, and teamwork by our group of 43 dedicated students, which we are really proud of.

DELFT HYPERLOOP

As a long-term partner of Delft Hyperloop, Nijkerk Electronics has once again played a crucial role in helping us achieve our goals this year. You supported us by providing Sensata contactors (main, pre-charge, and discharge) and an Isabellenhütte CAN-based current and voltage sensor, which together offered critical functionality and safety features for our high-voltage system.

Thanks to these components, we were able to comply with the strict electrical regulations of the competition, accurately monitor and control our HV system, and safely continue working on the pod even when high voltage was present.

Below is an overview of how we implemented and used Nijkerk's components:

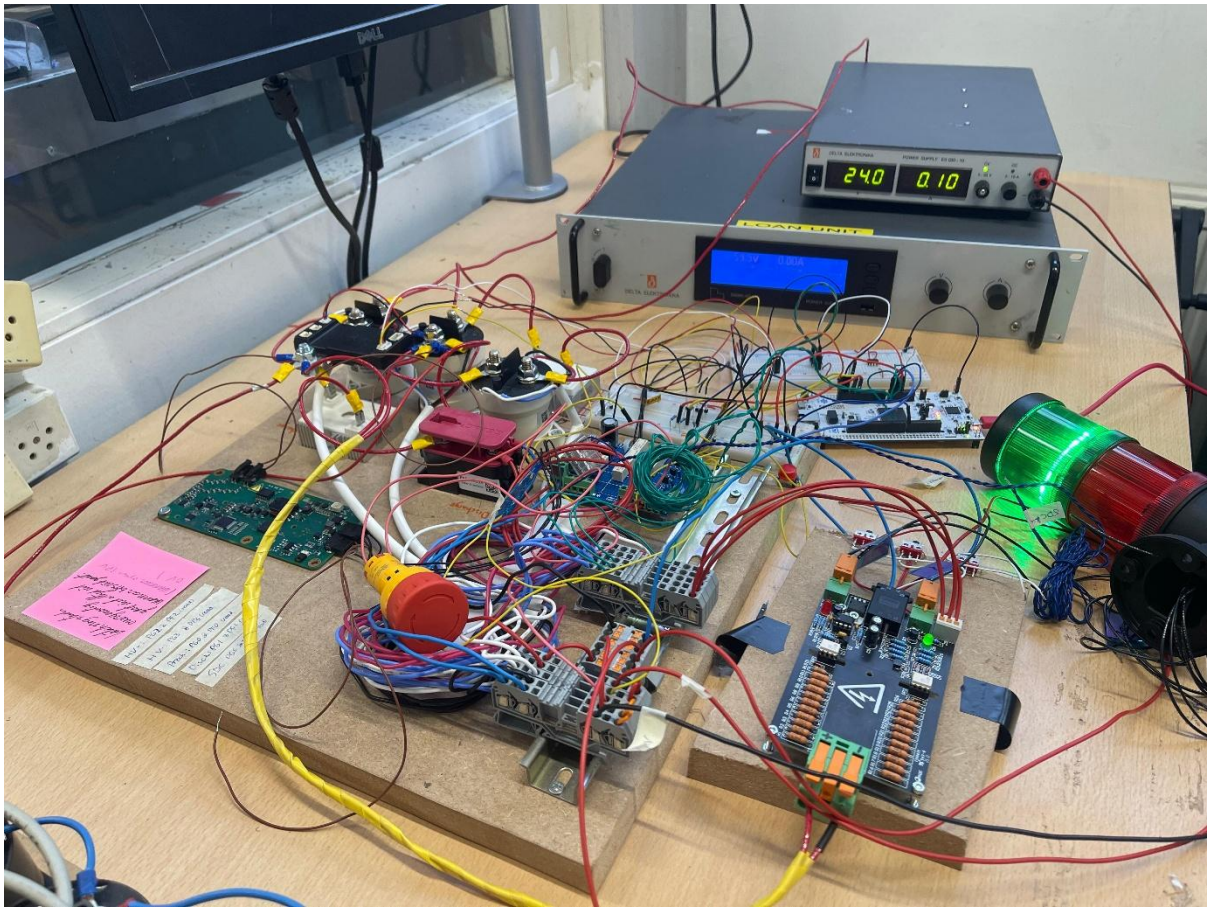

Figure 1: Test setup of the pre-charge and discharge circuit, including the SENSATA contactors, and isabellenhuette current and voltage sensor.

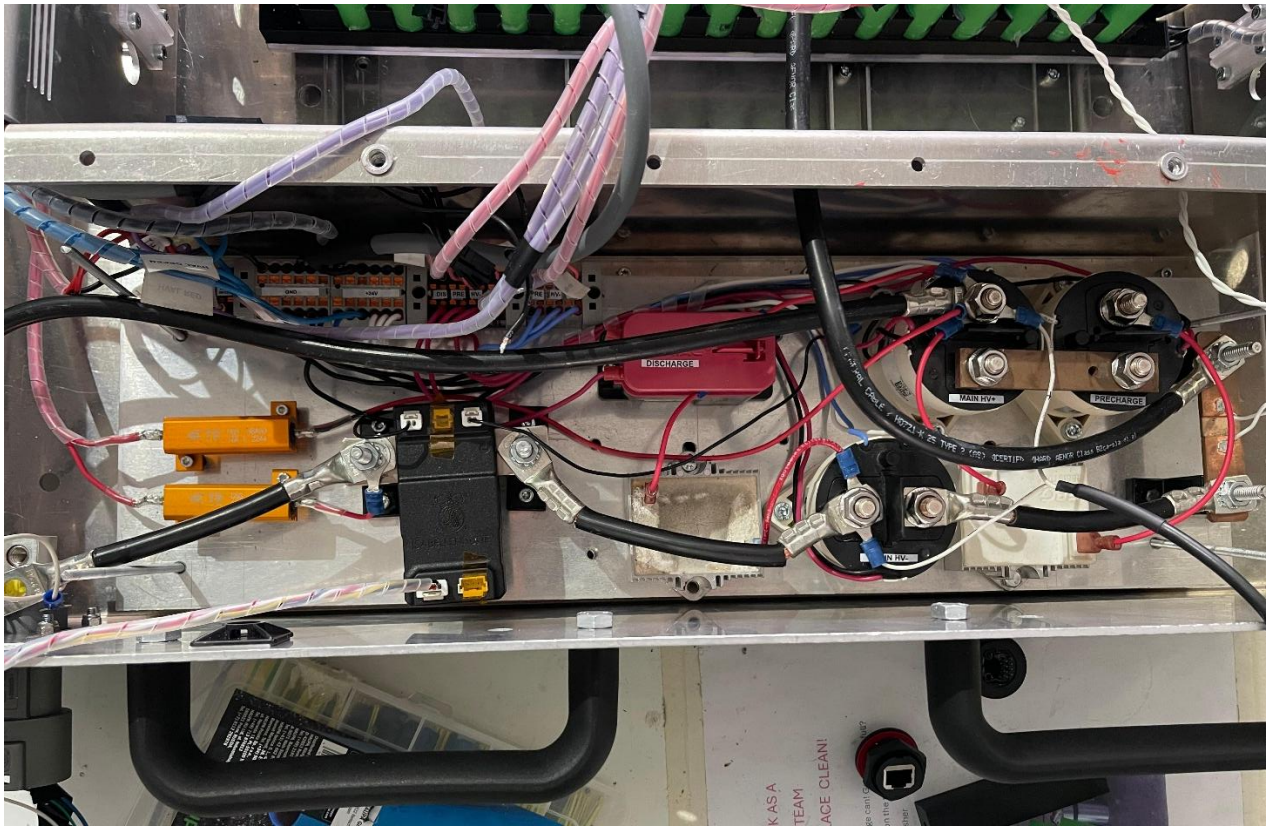

Figure 2: HV floor with contactors and sensors, inside HV Battery enclosure

Figure 3: Fully assembled High Voltage (HV) Battery

As our year has come to an end, we know we will miss working with your products. However, a new team is already well on its way, ready to build an even better pod next year.

On behalf of our entire team, and especially our Powertrain department:
Sam Waterman, Dirk-Jan Kragt, Nils Kaufmann, Lars Schuddeboom

We thank you for your help and support.

DELFT
HYPERLOOP