



NEWSLETTER



OCTOBER 2023



A SPECIAL THANKS TO OUR PARTNERS



HAN UNIVERSITY
OF APPLIED SCIENCES



Welcome to the official HFS newsletter! My name is Amy, I am head of communications and marketing for the team.

In this monthly newsletter you can expect a front-row seat to our season – filled with technical insights, behind-the-scenes glimpses, and you can learn more about our diverse team of talented engineers!

Enjoy the read!





CONTENTS

01 Meet our
Team Principal

03 Meet our
Department Chiefs

04 Department
Updates

06 **Events**

08 New
Sponsors!

Team Principal

Santiago Sanchez



Hello everyone!

I am Santi, the Team Principal of HFS Racing. Just a little bit about me, I am a 21-year-old from Uruguay in my third year of Automotive Engineering. From a very young age, I was already into cars and motorbikes. I love sports, especially rugby which I'm currently playing at Arnhem Rugby Club The Pigs.

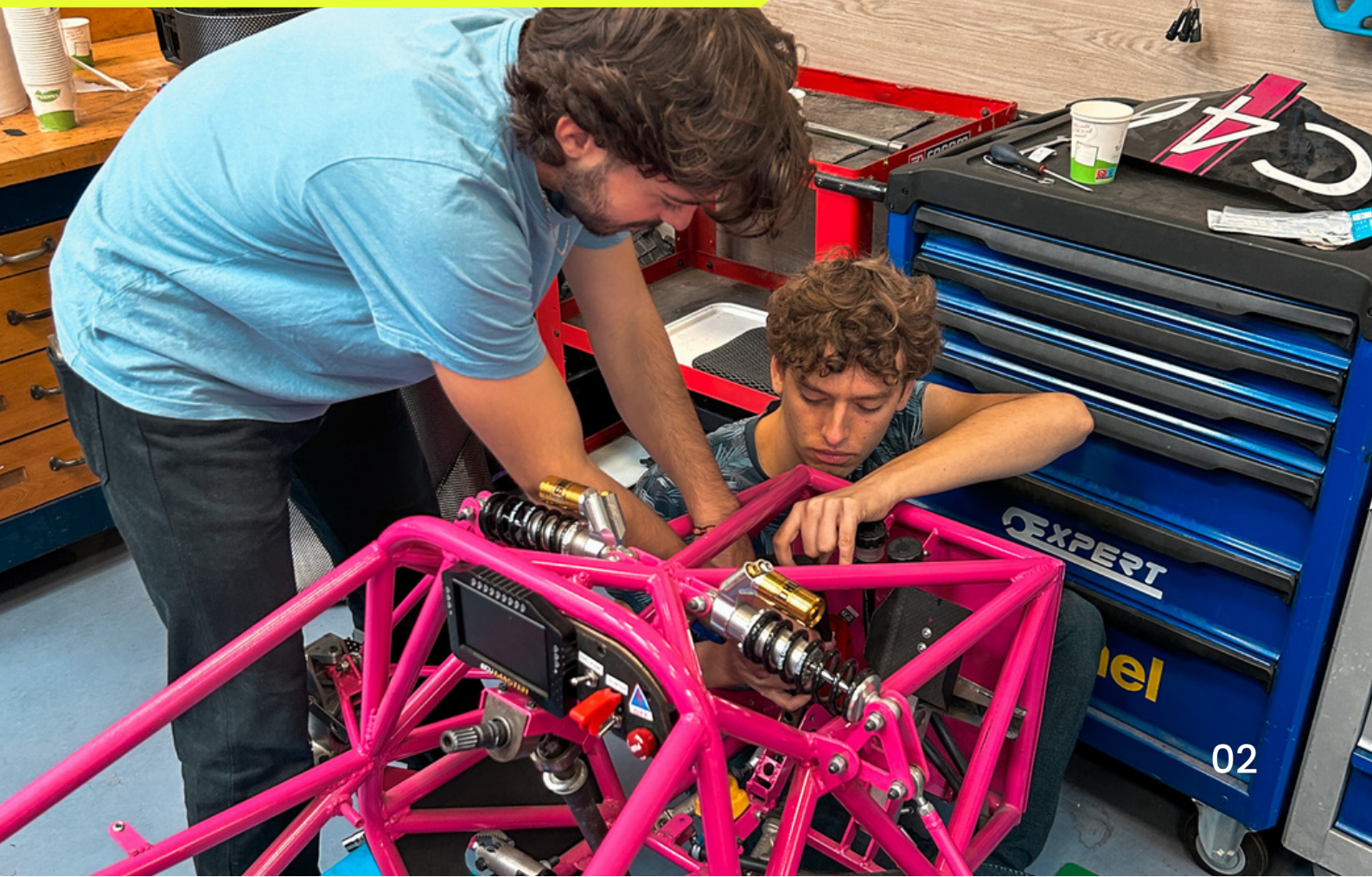
One of the reasons I chose the HAN was because of HFS Racing, I wanted to be part of it. Today I am lucky enough to be leading the team, I could say I would have never expected this. This year we have improved the team's management and organization, most importantly discipline. Our goal is to compete in the Formula Student Netherlands. We are going fully electric, so it will be a year of tons of learning and experience for the team and myself. I hope you join us on our amazing journey through the rest of this season, make sure to check out our monthly newsletter for all the updates.

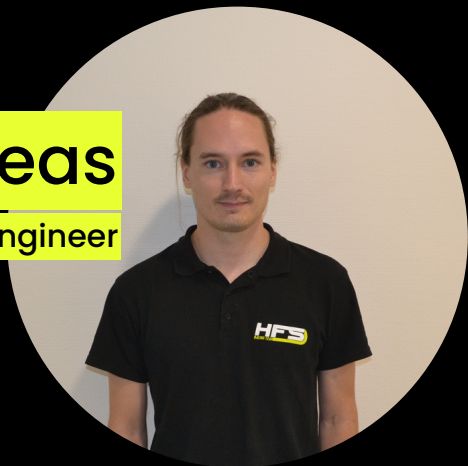
Enjoy the rest of the newsletter!

Vamo Arriba! (Expression you will only hear Uruguayans say = it something like "Come on!/Let's go!")



Our old car is getting a fresh coat of paint in the new team colours - we'll share some before and after pictures very soon...





Andreas
Chief Engineer



Marc
Powertrain Chief



Aridas
Low Voltage Chief



Matthew
Bodywork & Chassis Chief



Mark
Vehicle Dynamics Chief

Meet our
Department Chiefs

Department Updates



Low Voltage

In the Low Voltage Department, the focus has been on the development of the APPS sensor, mapping switches and sensors, and rendering the BSPD.

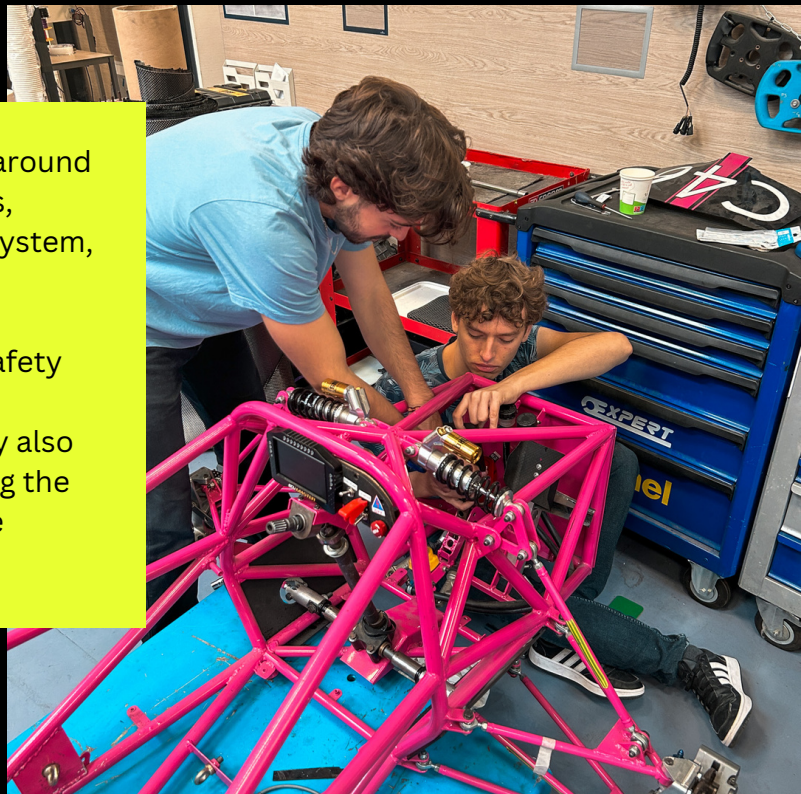
A thorough review of data acquisition methods have been conducted, and ECU development has been initiated with the receipt of necessary components.

Ongoing research and experimentation on various devices and sensors underline the commitment to continuous improvement within the department.

Vehicle Dynamics

The Vehicle Dynamics Department's efforts revolve around meticulous research and analysis of previous designs, covering the steering wheel, steering system, brake system, and front/rear suspension.

Analysing the current test vehicle's suspension for safety during disassembly and reassembly, and calculating battery capacity using Optimum Lap simulation. They also started the disassembly of the previous car, removing the suspension and brakes so that they could repaint the chassis in our new yellow colour!



Department Updates

Powertrain

Our powertrain department has made some significant steps in the first few weeks of the season!

One of our engineers stripped down the old motor to see if he could identify and possibly fix an issue so that we could use it in our test vehicle, and potentially save us from having to order a new one.

Alongside this, the rest of the department went through a thorough selection process to decide what motor we might need to order, in case the problem could not be fixed. Many discussions around the battery specifications have gone on as well- our powertrain department wants to ensure we make the best choice for optimal performance.

They also conducted in-depth IMD and TSAC research, compiled an inventory, finalised their project management plan and overviewed sensors for low voltage system data logging.

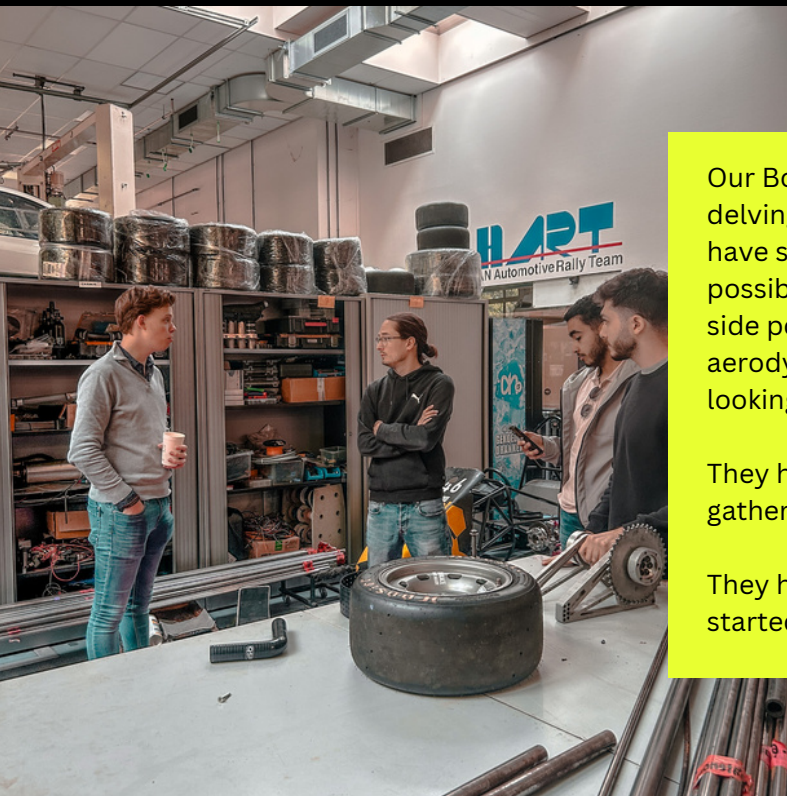


Bodywork and Chassis

Our Bodywork and Chassis Department has been very busy delving into detailed research on various parts of the car. They have started looking at rear wing design ideas, its function and possible manufacturing methods. They have been looking into the side pods and skirts to determine what we can gain aerodynamically from that area of the car. They've also been looking at ways to redesign the backend of the previous car.

They have also started exploring some more hands-on work like gathering ideas for the test vehicle's pedal box.

They have completed their project management plan and have started work on individual part reports as well.





automotive
center of
expertise

Events

This month we had the pleasure of attending the ACE Mobility career day!

It was a great day that gave us the opportunity to network with companies throughout the automotive industry and showcase our team and the project to students.

Thank you to everyone who stopped by our stand, hopefully you were able to give the simulator a go and take a look at our car in person! And thank you to everyone who took the time to speak with us!

We hope to attend more events like this in future. Thanks ACE - it was an amazing day!



A few of our management also attended the Zero Emission Ecomobiel fair in Den Bosch this month.

They spent the day networking with companies and people in the sustainability sector of the automotive industry, looking for potential sponsors and showcasing our team and our goals.

It was a wonderful opportunity for us to get the word out about how our project supports future engineers in the world of sustainable mobility!

We look forward to attending more events just like this!



OUR NEWEST

SPONSORS!



This month we are thrilled to announce a new partnership this season with Energie Consult Holland BV (ECH), a trailblazer in the world of pressure equipment inspection and testing!



We are also excited to welcome another exciting new partnership with an industry leader in mould making, Jadima BV!

THANKS FOR YOUR SUPPORT!

HFS

RACING TEAM

RACING FOR A BETTER TOMORROW!

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HAN Formula Student Team



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