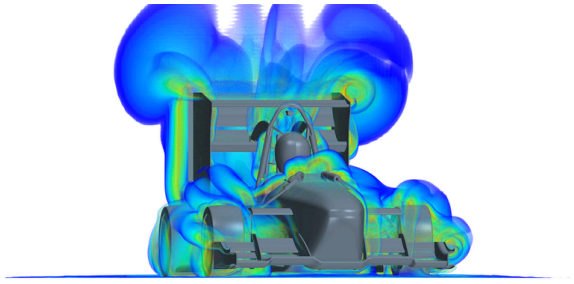


SUGGESTED TOPIC FOR SCIENTIFIC WORK

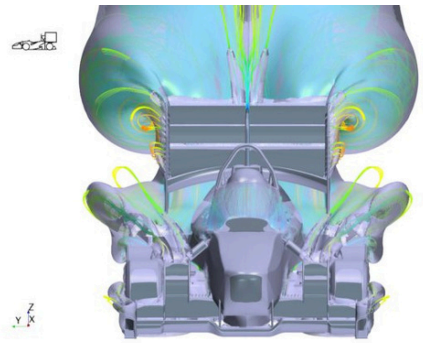
CFD Workflow

We use CFD simulations to develop our aerodynamic package. The objective is to improve the workflow, accelerate development and achieve results closer to real on-track performance.
Using Siemens Star-CCM+ and NX, the project will integrate CFD into the CAD workflow, standardise preparations for automated simulations and introduce new aerodynamic analysis tools. Further improvements will focus on simulation accuracy, cell count and result variability.

Detailed information will be provided in person to protect sensitive information. The topic is merely a suggestion and must be finalised with the institute.



https://racetech-racingteam.de/wp-content/uploads/2020/05/Ractech_Megware_Artikel_TN.png


https://www.racecar-engineering.com/wp-content/uploads/2018/10/RSZ_Munich_CFD-696x446.jpg

Tasks:

- Improve Mesh (cell count)
- Enhance connection to CAD
- Develop new analisys tools

Requirements:

- Basic Programming skills
- CFD experience
- Knowledge about fluid mechanics
- Optional: CAD Skills
- Become team member