NEWSLETTER

TOPICS:

UP-TO-DATE WITH RACETECH

Dear sponsors, friends and supporters,
we hope you had a pleasant Christmas season and a wonderful start to new year!
In the following text, you will read about the RT14evo which is basically our RT14 with appropriate modifications for autonomous driving.
The development and construction of certain parts for the RT14evo is in full swing. Our electronics engineers are working on revising the circuit boards. You can find out how this development is taking place in this newsletter.
In addition, we would also like to share some news about the rollout of the RT14evo, which is expected to take place in June 2022. We are currently planning three alternatives: an event in full presence with a live stream, a hybrid event, and an online event. Which is obvious choice of preference would be to have the event in full presence, unfortunately, we cannot yet assess the situation for the next year. We will keep you up to date in our newsletters.
Your Racetech Racing Team

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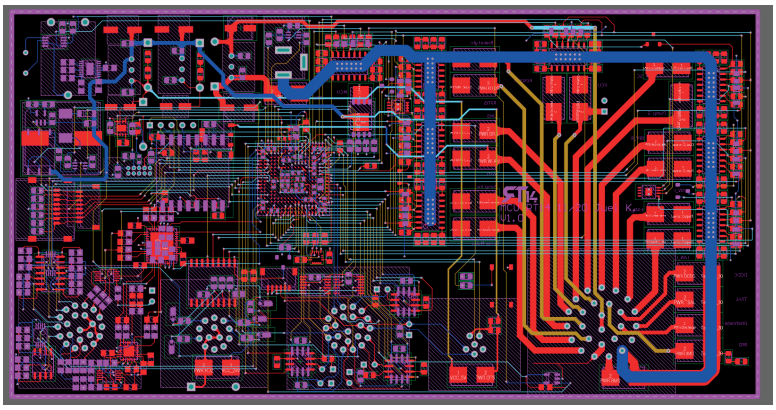
LATEST NEWS

RULESTRAINING

Like every year, we are currently training for the event registration in January. We have been conducting rules quizzes since November. Because of the various specific sub-categories in the regulations, the quiz would be different for each module subdivision. In addition, team-wide quizzes on cross-topic rule questions are also being carried out. Our goal is to prepare ourselves as much as possible for the registration quizzes and eventually qualify for our desired events.



Author: Svenja Linke

Rulestraining 2020 (above) and layout of the main control board (below)

CIRCUIT BOARD DESIGN

We have been developing our own circuit boards for many years to ensure a successful and reliable control of our prototypes. In addition to managing measurement data acquisition or driving dynamics control, they also control some safety-critical aspects such as the Tractive System Active Light. They first go through a requirements analysis. As per the regulatory requirement and other additional necessities from the team, the required feature are identified. As soon as they are established, the requirements are recorded in the circuit diagram with the help of the Altium Designer and are implemented electrically. Before they can be further developed into a layout, they are checked by more experienced electronics engineers and are subjected to further devolopment. Eventually, the task is to place the components in the actual installation space in the most space-saving way possible. The actual electrical connections that connect the components on the finished circuit board are also planned in this step. To ensure high manufacturing quality, the layout is then implemented externally. The completed PCB is then assembled and soldered by us.

Author: Juel Kassou

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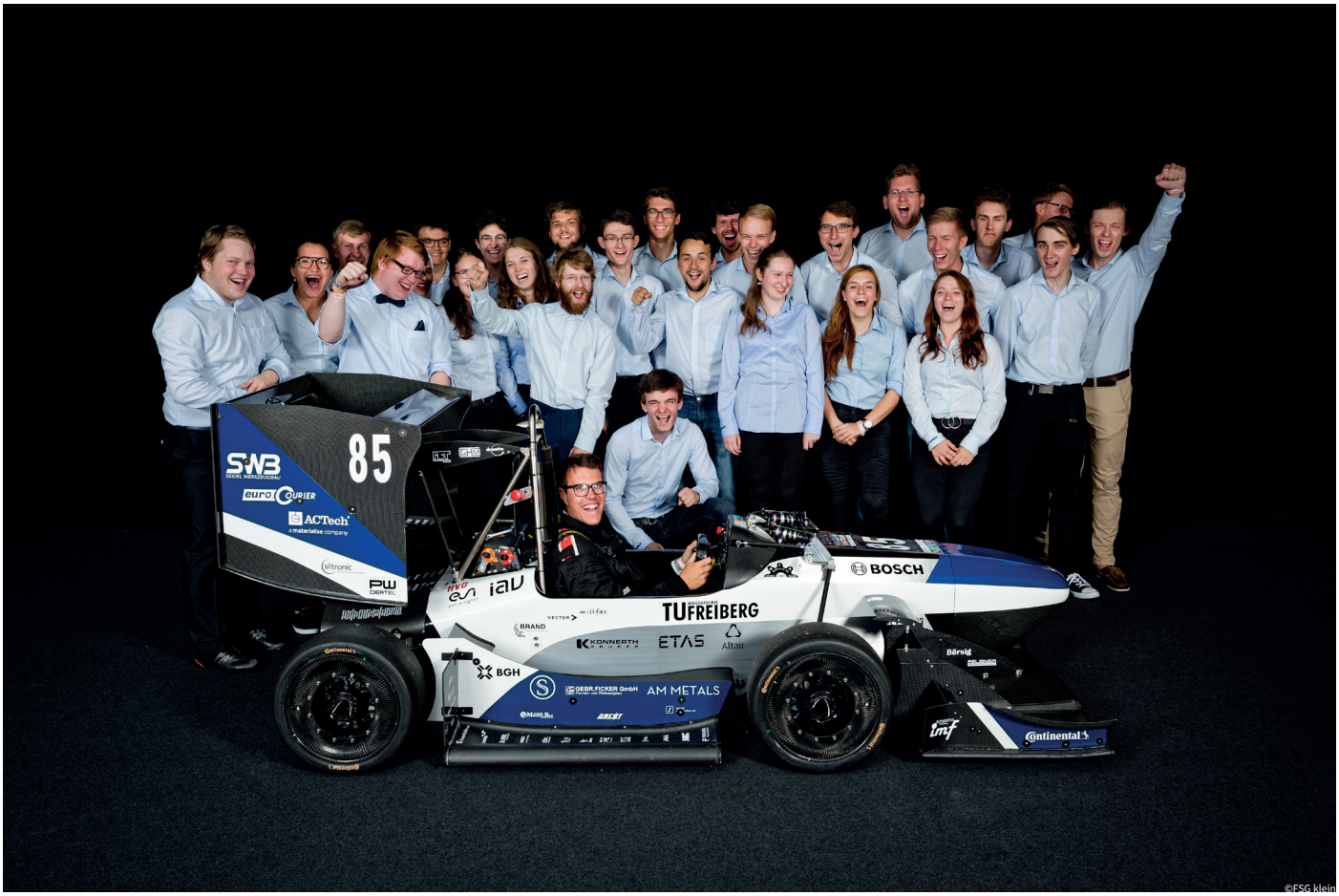

RACETECH RACING TEAM

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