

FORMULA STUDENT ONLINE

101



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FORMULA STUDENT **EAST**



WHAT ARE WE STILL DOING ONLINE?

2021 brought our beloved Formula Students competitions back on racetracks, so you are rightly asking: what is the point of an online event? One word: preparation. Conceptual decisions and design iterations are performed way in advance of competition season, and feedback through a challenging environment to students is highly profitable for their later success in the Summer. Our concept for 2021 includes exactly such challenges in three stages, culminating in our livestreamed finals. FS Online 2021 comprises of a Design Highlights Challenge, Business Plan Presentation Event and dynamic events, featuring our unique mods for EV and CV classes as well as the self-developed Driverless Simulator for DV teams.

DESIGN HIGHLIGHTS CHALLENGE

Success in the Engineering Design Event in a Summer competition requires proper understanding of how a concept is transformed into reality, which includes its proper evaluation and documentation.

In the Design Highlights Challenge of FS Online 2021, teams are challenged to choose a subassembly of their liking that is then presented to our expert judges. Whoever shows the best concept for their assembly that is well-integrated into their overall vehicle proceeds through two stages to the final:

- **Stage 1:** white paper submission on the chosen subassembly
- **Stage 2:** 40 minute engineering discussion with a topic-specific expert judge
- **Stage 3:** 20 minute livestreamed final presentation on how the subassembly would be redesigned given specific parameter changes to the overall vehicle

May the best concept win!

BUSINESS PLAN PRESENTATION EVENT

Other than the three stages, no changes are made to the usual Business Plan Presentation format.

Except for the obvious one: pitches must be made online, giving a new dimension on the difficulty of transferring emotions as well as enthusiasm to the audience. Teams must prepare a carefully worked out business pitch centered around their developed racecar. Wild ideas are welcome, but execution is key to success.

Top 3 selected finalists will have 10 minutes to present during our livestream. Watch out and get inspired!

DYNAMIC EVENTS

Capturing the nerve-wracking moments of an endurance is not going to happen virtually.

We know this, therefore dynamics at FS Online 2021 are there for the teams to have fun and experience how the world of e-sports can help in their driver training. With our specially developed modification for the realistic simulator rFactor 2, drivers can be put to the test purely based on their skills in our dynamic events:

- **Autocross:** single best lap wins on the ZalaZone test track
- **Group stages:** selection of fastest drivers on a Race-of-Champions style track
- **Finals:** knockout finals in EV and CV for the ultimate trophy

DRIVERLESS

In an online world, driverless teams have a special place: their algorithms can compete on the self-developed Formula Student driverless simulator, specially brought to you by FS Online. This allows testing various scenarios in a controlled manner, such as rain, sensor degradation through dirt buildup and fog, without ever risking anybody's life. Formula Student's main aim is to better prepare students for industrial tasks, wherein our driverless simulator provides a direct link: manufacturers use the same method to develop market-ready assisted driving systems in a safe and efficient manner. Check out this unique event during our livestream!

TEAMS



AMPERA RACING
Universidade Federal de Santa Catarina



ARUS C
University of Seville



EIGNITION HAMBURG
Technical University of Hamburg



FS USURT
Ural State University of Railway Transport



KA-RACING
Karlsruhe Institute of Technology



TEAM BATH RACING
University of Bath



UPB RACING TEAM E.V.
Universität Paderborn



ARRABONA RACING TEAM
Széchenyi István Egyetem



BME MOTORSPORT
Budapest University of Technology and Economics



EFORCE FEE PRAGUE FORMULA
Czech Technical University in Prague



FSB RACING TEAM
University of Zagreb



PRAVEGA RACING
VIT University Vellore



TU GRAZ RACING TEAM
Technical University of Graz



Ü RACING
Universidad Rey Juan Carlos

LIVESTREAM PROGRAMME

08:30 - 09:00	FSO Welcome
09:00 - 09:10	AutoX EV Block 1
09:10 - 09:25	AutoX CV Block 1
09:25 - 09:45	Studio interview with Zsófi Bodó / Driverless leader of FSO
09:45 - 09:55	AutoX EV Block 2
09:55 - 10:05	AutoX CV Block 2
09:05 - 12:10	Design Highlights Challenge eForce FEE PRague, TU Graz Racing Team EV, UPB Racing, BME Motorsport, FS USURT, Team Bath Racing
12:10 - 12:15	Studio check-in
12:15 - 12:45	Business Plan Presentation Event ARUSC, TU Graz, Pravega Racing
12:45 - 12:50	Studio check-in
12:50 - 13:35	EV final (6 rounds, 36-45 minutes)
13:35 - 13:40	Studio interview with Báldi Gergő
13:40 - 14:25	CV Group stage (6 rounds, 36-45 minutes)
14:25 - 14:30	Studio summary of Group stages
14:30 - 15:10	CV final (5 rounds, 30-45 minutes)
15:10 - 15:25	Studio highlights
15:25 - 15:40	Awards ceremony

JOIN THE LIVESTREAM
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THANK YOU!

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