2024-01-18 Racing Working Group Meeting #4107

pojenwang started this conversation in **Working group meetings**

pojenwang on Jan 18   Collaborator   edited ⌄

Administrative

[Previous Meeting Minutes](#)

Attendees

- Po-Jen Wang (AWF)
- Mitsudome-san (Tier.IV)
- Jack Silberman (UCSD)
- David Walmroth (Open AD Kit / Pix-Moving)

Minutes: Po-Jen Wang

Topics

Autonomous Karting Series Update

- Competition tentatively scheduled on May 20-24th, with 2-3 days to practice, 1 competition day, and 1 backup rain day.
- Propose to host the competition at the [New Castle Motorsports Park](#) in New Castle, Indiana. Last year's Purdue Grand Prix track will be a backup.
- Not confirmed if they will use white lines/cones/reflective markers to identify track boundaries. Andrew is trying to get insurance and it will determine if certain objects can be placed on the track. The type of marker will greatly affect the software approach for perception and localization.
- This year each team will assign an Autonomous Safety Officer to ensure the kart operates in a safe manner
- This year each team will assign a Designated Driver for remote manual control
- This year each team will need to submit a design document listing the BOM and electrical system
- Our AV4EV gokart currently does not meet the following rule requirements and will need to be modified:
  i. Batteries are removable from the kart without the use of tools and cannot have any exposed connectors or contacts

Category

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Labels

meeting:racing-wg

1 participant

     ii. Remote Estop applies the brakes bringing the kart to a full stop.

     iii. Chains must have chain covers.

     iv. Front and Rear bumpers are required.

- One of the rules states that there should be one switch that cuts off power to the rest of the system though most teams will have two separate power systems (for drivetrain and AUX). So will two switches meet the requirement?
- David suggested that if allowed they can bring their Pix moving EV to map out the track ahead of time and they can bring the vehicle to the competition for a demo
- AWSIM-racing is one of the simulators suggested for simulating the race
- [Website](#)
- [Rule](#)

Other topics:

- AWF Work Group overview: https://autoware.org/join-a-work-group/

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