



NXP CUP
INTELLIGENT
CAR RACING

Application for organizing an NXP CUP EMEA 2021 Campus Race

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1. Table of contents

- 1. Table of contents..... 2
- 2. Overview 3
- 3. Apply to host a Campus Race 3
- 4. Site requirements 4
- 5. Event Planning..... 4
 - Early before the Campus Race..... 4
 - At least 2-weeks prior of the event date..... 5
 - One week prior of the event date 5
 - Day of event..... 5
 - After the Event (same day!)..... 6
- 6. Files to be returned to NXP after a Campus Race Event 7
- 7. Contact information 8
- 8. APPENDIX A: REGISTRATION FORM to Host an NXP Cup EMEA Event 8

2. Overview

Safety of the participants and supporting teams are at the center of the attention of the NXP Cup management team. As such, the NXP Cup in-person events such as qualifications and finals are reduced. Those can be delayed or cancelled to abide by the security restrictions imposed by local authorities, schools, universities and the NXP Semiconductors Security team. Throughout the span of the 2020/2021 NXP Cup EMEA season, the NXP Cup management team will be briefed and stay informed about the development of the pandemic and will take any necessary actions to ensure the safety and good health of its participants.

3. Apply to host a Campus Race

Campus races are events organized in collaboration with the NXP Cup EMEA Challenge team to replace the previously organized “qualification races”. They are designed to reduce travel and possible cross-contamination of the COVID-19 virus. The Finals event will be virtual (Live broadcast).

The planning of the campus races are done with the NXP Cup EMEA Challenge management team in order to ensure parity between the different events. Students will be encouraged to participate within the local restrictions of count of participants and sanitary precautions. Each campus race will require video recording of the event to ensure proper validation of the conditions and performance of each team. All video recordings as well as the results of each challenge will have to be documented on provided Excel spreadsheets for evaluation of the EMEA Champion by NXP.

Universities and schools have until 31st January 2021 to contact the NXP Cup EMEA management team and list themselves as candidate for organizing an event. To do so, please send the [Appendix A](#) duly filled and signed to Matthias.Wilkens@nxp.com or Flavio@stiffan.eu before the deadline date.

All applications will be reviewed and prompt feedback will be given to help validate if the application is accepted. A follow up call with the host contact person might be necessary to clarify or validate some points of the application.

Note: the submission of the application to host an NXP Cup EMEA 2021 Campus Race does not guarantee the acceptance from the NXP Cup EMEA organizers for the event. Feedback and acceptance can take up to 28th February 2021.

Both parties will monitor the pandemic situation carefully so that changes such as a cancellation of the Campus Race event can apply on short notice.

NXP will support each Campus Race with the following deliverables:

- Masks
- Liquid disinfectants

Organizing an NXP Cup EMEA 2021 Campus Race

- Official racetrack on request (to be scheduled)
- Official timing system on request (to be scheduled)
- PDF to print of all rules, team signage and disinfection/social distancing COVID-19 signage

4. Site requirements

The selection of a room to run the NXP Cup event at the campus is a process that we recommend being done with the NXP Cup organizing team.

The ideal conditions for a room to run a NXP Cup race are:

- 6m x 10m (track's footprint is in the range of 4m x 7m)
- Consistent lighting conditions
- Good ventilation (due to COVID-19)
- Uni-color flooring cover (avoiding being white or black)
- Power supply for the timing system

The floor can be covered with sand-color like carpet or corrugated cardboard material (rolls) taped together.

5. Event Planning

Campus Races will be organized to reduce travel and possible cross-contamination of the COVID-19 virus. The Finals event will be virtual (Live broadcast).

Campus Races events will be hosted by select universities/schools where there is a significant count of registered teams (over 5 teams) or if listed in the "NXP CUP EMEA Key Universities" sheet. Campus Races are In-Person events. Only country-residents are allowed, no cross-border participation. Campus Race substitute the "Qualification events" from previous seasons.

Early before the Campus Race

The following actions are required:

1. Apply to host an NXP CUP EMEA Campus Race (deadline: **January 31st, 2021**)
2. Join the NXP Cup Organizers calls (Webex calls every 2 weeks)
3. NXP will give regular updates on registration status to evaluate participants' team count

Organizing an NXP Cup EMEA 2021 Campus Race

4. Agree on a suitable event date and time (start of competition) with NXP before **February 28th, 2021**. The Campus Races can take place between March 15th and April 30th, 2021.
5. Provide NXP with information concerning the use of a home-made timing system or require the use of the official system from NXP (to be reserved when the suitable event date and time is established).
6. Campus Races have to be performed within one day.

At least 2-weeks prior of the event date

The organizers at NXP will send a list of the track parts required to create the final timed racetrack but will not give the final configuration of the track. This will ensure that the campus race location has all the track parts ready for the event.

One week prior of the event date

NXP will provide at least 2 days prior of the event:

1. a "Hygiene Kit" and signage for the event area
2. a Video Copyright Release form as the content of the video recordings might be shown during Virtual Finals Event
3. an attendance list and related documentation for team signage
4. Racing Certificates for each enrolled and confirmed event participant
5. Scoring sheets for the timed race and the obstacle avoidance challenge
6. If required, NXP CUP tracks and Timing Systems. Earlier shipments can be arranged depending on availability. Track configuration options incl. table of contents will be part provided via email.

Day of event

IMPORTANT: All teams, organizers and visitors have to wear masks at all times. NXP recommends keeping the attendance at a minimum (no spectators)!

1. The Campus Race can take place between 9am and 5pm local time.
2. The organizer is responsible to have prepared and verified all material sent by NXP.
3. The schedule of the day must be in alignment with the scheduled agreed upon with NXP.

Organizing an NXP Cup EMEA 2021 Campus Race

4. During the event day, part of the time can be used for training. E.g. doors open at 9am. Obstacle Avoidance at 11am, Timed Race at 2pm. One hour prior to timed race, all cars have to be placed onto the vehicle inspection tables (see the NXP Cup EMEA 2020/2021 Rules for details).
5. The Obstacle Avoidance event should be planned about 3 hours before the timed race to allow teams to reconfigure their vehicles.
6. NXP will provide the obstacle avoidance and timed race racetrack layouts (Competition Layout) to the organizer via email one hour prior of each event. During the assembly of the timed race racetrack, no participants are allowed in the room.
7. The procedure of the timed race must abide by the NXP Cup EMEA 2020/2021 rules).
- 8. Documentation (important): During the event, the organizer (or assistants) has to make sure to document the following:**
 - a. Before the obstacle avoidance challenge: picture of the track layout of the obstacle avoidance must be taken
 - b. Before the timed race: 4 pictures of the track layout (from each corner of the track) must be taken for proof of the correct configuration. This proof must to be sent to NXP prior to the first contestant so NXP could give approval to start the race! This must be done via email.
 - c. Video recording (horizontal/landscape mode) of all attempts for both *Timed Race* as well as *Obstacle Avoidance*. Make sure the car can be seen at all times. Each video must end with a view on the timing system to proof the validity (for the timed race).
 - d. Document the best time into the Scoring table provided by NXP. Note down extra points for Obstacle Avoidance if applicable.
 - e. Each team is to pose for a team picture at the end of the race with their car.

After the Event (same day!)

At the conclusion of the event, the following actions must be taken to ensure proper recording of the results at NXP:

1. All results must be sent to NXP within **two hours** after the last participants take. Please create a ZIP file incl separate folders for each team
 - a. Team Folder A (e.g. Team “FastCar”):

Organizing an NXP Cup EMEA 2021 Campus Race

- Team picture
 - Videos from all attempts from *Obstacle Avoidance* and *Timed Race*
 - Code from team (will be handled confidentially. To be used by NXP only. Code will not be shared)
- b. Scoring table
2. Track and/or timing system return procedure (where applicable)
- a. Disassemble the track, clean it and put it back into the transport box.
 - b. Disassemble the timing system, clean it and put it back into the transport box
 - c. NXP will provide a pre-paid shipping label to the next destination (either NXP or Campus).
 - d. Notify NXP of the shipping tracking information

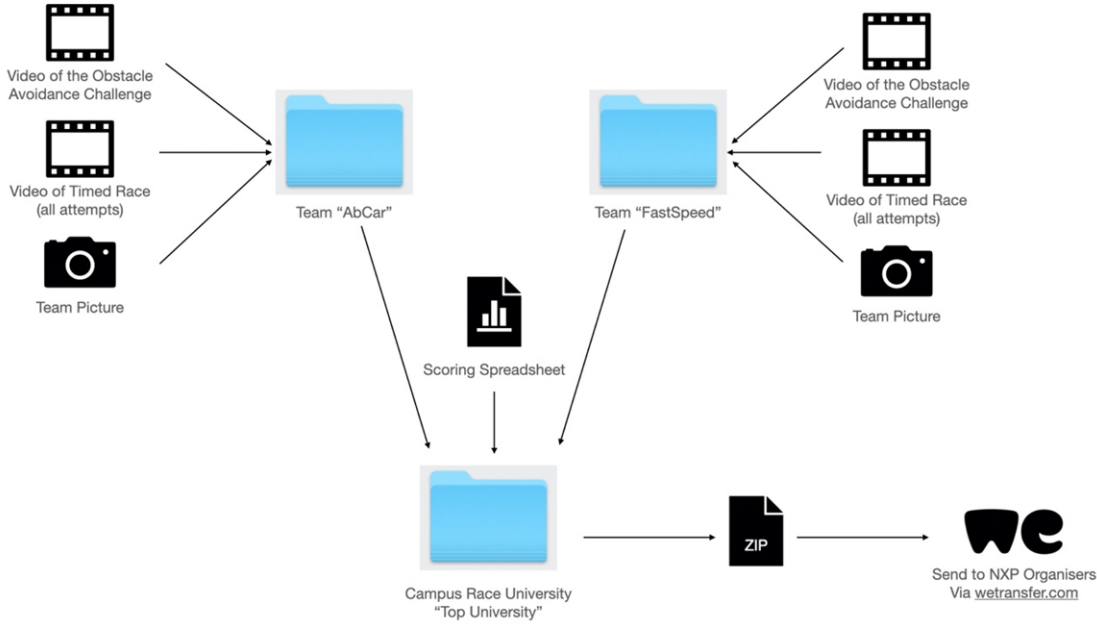
6. Files to be returned to NXP after a Campus Race Event

The following documents must be returned after the campus race event within 2 hours of the end of the Campus Race.

All files must be Zipped (.zip) into 1 attachment. Attachment is to be sent via Wetransfer.com to Matthias.wilkens@nxp.com and flavio@stiffan.eu

Team picture	JPEG format	In Team's folder
Video of the Obstacle Avoidance challenge	MP4 format	In Team's folder
Videos of the timed race (all attempts, max 3)	MP4 format	In Team's folder
Copy of the code running on the car during the timed race	Text format (.docx or .txt)	In Team's folder
Scoring Spreadsheet with all the results	.XLSX format	In Zip file

Organizing an NXP Cup EMEA 2021 Campus Race



7. Contact information

At all times during the event, a member of the NXP Cup EMEA organizing team will be available for any questions or to mediate on any issues related to the application of the rules. A video link will be available for you contact and discuss any concern or get immediate support.

8. APPENDIX A: REGISTRATION FORM to Host an NXP Cup EMEA Event

I herewith confirm my wish to host an NXP CUP EMEA Campus race. I understand that both parties, NXP as well as me representing my university, have the right to cancel the participation in the case that local restrictions due to COVID-19 require it.

In the case of cancellation, I agree to return racetrack and timing system to NXP promptly.

Institution Name:

Main point of contact:

Name:

Organizing an NXP Cup EMEA 2021 Campus Race

Email Address:

Phone:

I have an official NXP Cup racetrack () Yes () No

I have a suitable timing system () Yes () No

My institution has access to a suitable room () Yes () No

If "Yes" please provide the following information:

Room size (m²):

Count of windows:

Type of lighting: () Fluorescent cold () Fluorescent warm

() LED cold () LED warm

() Other – please describe:

Expected count of home teams to join the event:

Name:

Position:

Date:

Signature: