

NXP CUP 2024

Autonomous Robotics and Automotive Challenge

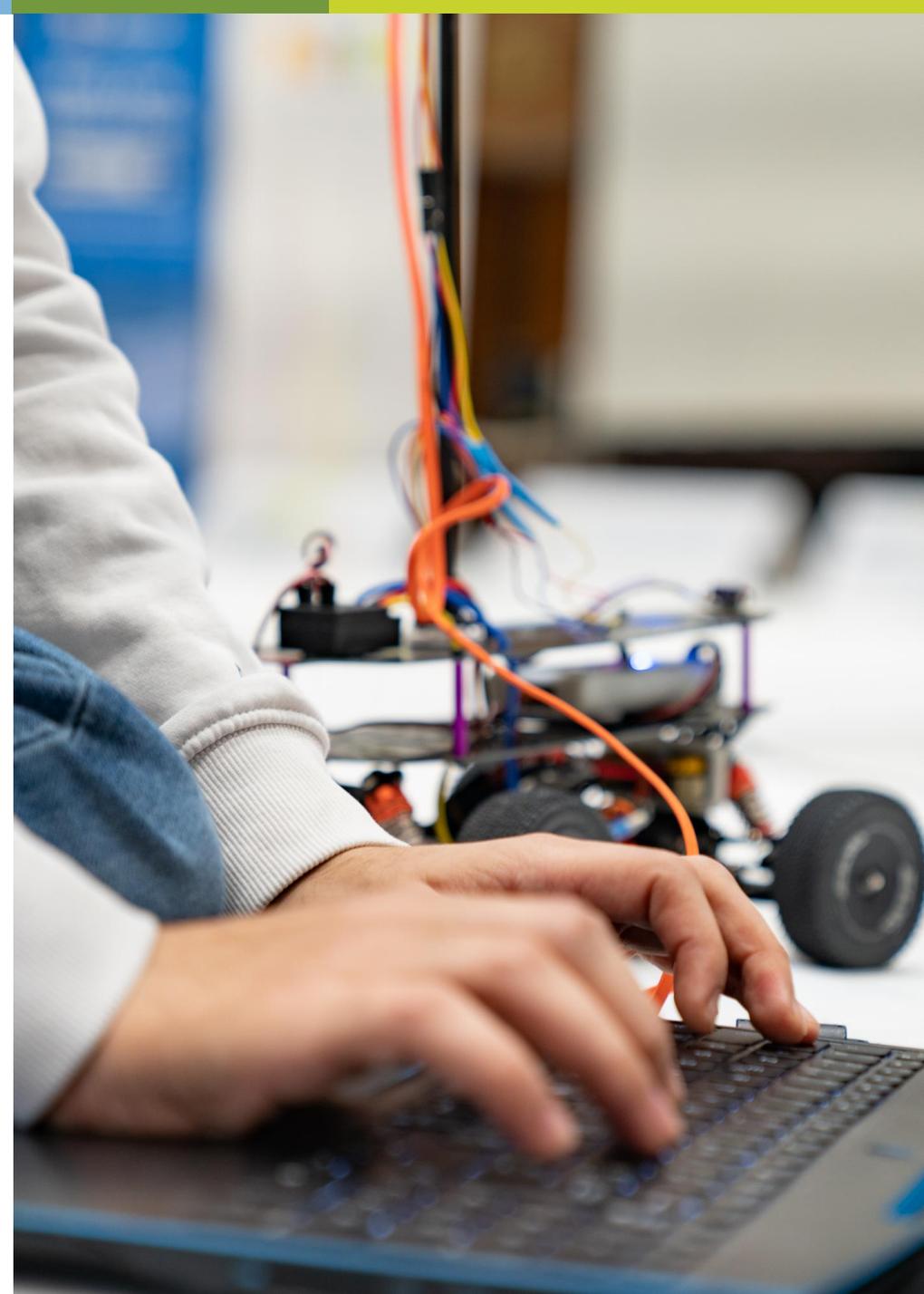
NOVEMBER 2023



SECURE CONNECTIONS
FOR A SMARTER WORLD

PUBLIC

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NXP CUP 2024: ENHANCE YOUR SKILLS WITH INDUSTRY STANDARD SOLUTIONS

It's small, it's priced right for students and it runs real-world autonomous car software. This is the NXP Cup – an invitation to make a pro-level autonomous model car. Participants build, program and race it against other teams, aiming for the fastest time and the most precise manoeuvring.

AUTONOMY

Co-work with NXP engineers to design the driverless vehicle



ROBOTICS

Experience more possibilities with our AI/ML processors



MECHATRONICS

Get your feet wet with our chips and build your own vehicle



CODING

Make use of our starter software and tune your car for the fastest lap time

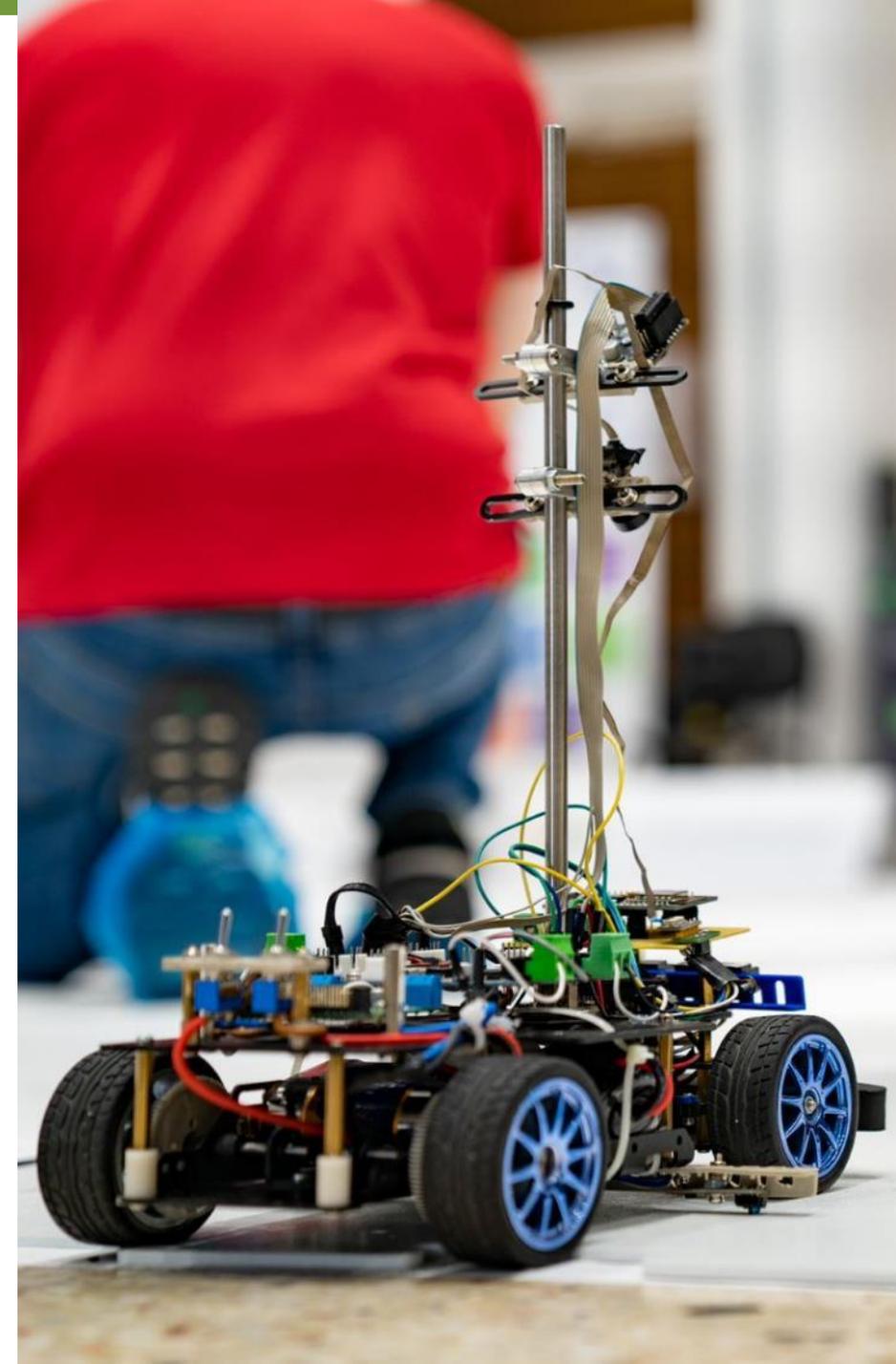


TEAMWORK | NETWORK | CHALLENGE

NXP CUP

YOUNG TALENT USING INDUSTRY STANDARD HARDWARE AND SOFTWARE

- **The idea:** Student teams build, program and race a model car with against each other aiming for the fastest time and most precise maneuvering
 - **The target group – STEM:** A competition for university students and robotic clubs in EMEA
 - **The technology:** The same NXP processors used in the NXP MR-Buggy3 platform are used in many popular car models, IoT devices, and robots
 - **The scope:** Virtual first, closing with in-person qualifications and the great finals at a pre-defined location
 - **The timeline:** Starting with the university semester in October, closing with the finals in May the next year.
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- ✓ Get in touch with hundreds of talented and motivated students from engineering faculties
 - ✓ Join one of the hottest automotive industry topics with electric, self-driving and connected cars



JOIN THE GREATEST AUTONOMOUS ROBOTICS AND AUTOMOTIVE CHALLENGE IN EMEA



100 TEAMS

from different universities and schools in EMEA joined us in 2023

12 COUNTRIES

including France, The Netherlands, Germany, Morocco, Lebanon and many more participated

30 UNIVERSITIES

all students welcome: High School and STEM, Bachelor, Master, PhD, Robotic Clubs

8 CAMPUS RACES

in-Person events held on EMEA campuses

FINALS IN BUCHAREST

Top 18 Teams got invited to race for €6,000 prize money



THROW BACK

2023 SEASON WITH 100 STUDENT TEAMS AND A GREAT PARTY IN BUCHAREST

- Around 350 students from 13 countries including France, Germany, Romania, Switzerland, UK, Morocco and more
 - 8 qualification events held locally at universities and NXP Sites
 - Top 18 teams qualified for the finals in Bucharest
 - In Bucharest: a two-day finals event with programming, soldering, international event dinner and Euronews live-broadcast during the Final Races
 - Digital: 500.000 total impressions during the NXP Cup digital campaign, including social media posts, blogs and videos as well as partner promotion
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- ✓ Join the qualification and finals event and promote your company
 - ✓ Be part of a great social media campaign and position your company as accessible among students, increasing its visibility





2023 Highlight Video

Explore our [2023 NXP CUP Finals Video](#) to experience the fun



Euronews report on NXP CUP

Want to become famous? See the great [media interest](#) in NXP CUP



2023 Rules Video

[Watch the video now](#)

DEVELOPED FOR STUDENTS TO GET A QUICKSTART INTO HARDWARE AND SOFTWARE



SUPPORT

Ready to use courses, code snippets, Webinars, Community help, Development platform (1/16 Race Car)



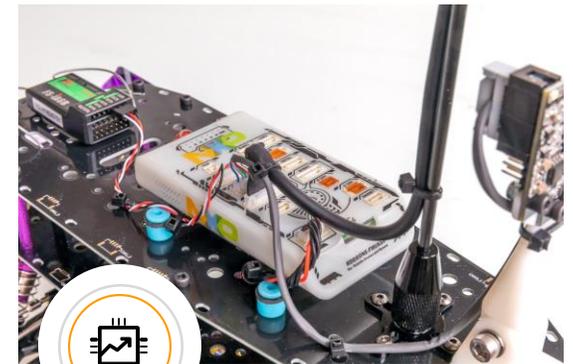
THEORY INTO PRACTICE

Apply your learning into a practical and exciting program



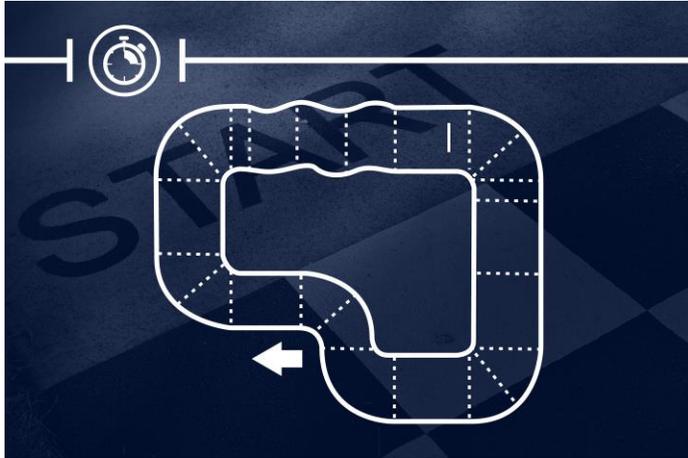
EMPLOYMENT

Great addition to your resume and an opportunity for networking



2023 NXP CUP Buggy [MR-BUGGY3](#)

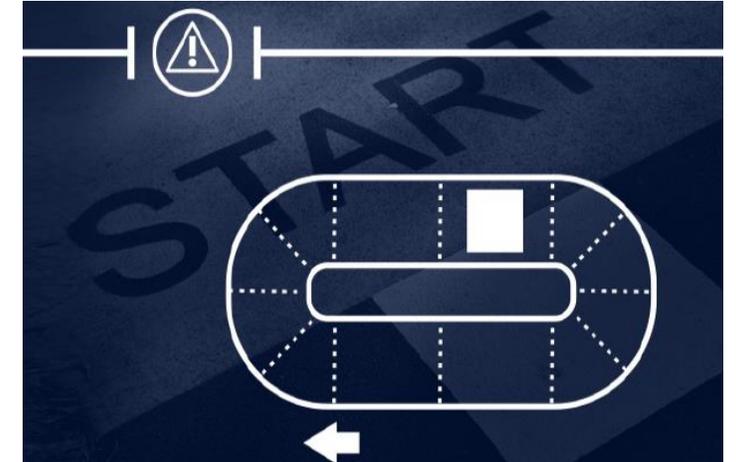
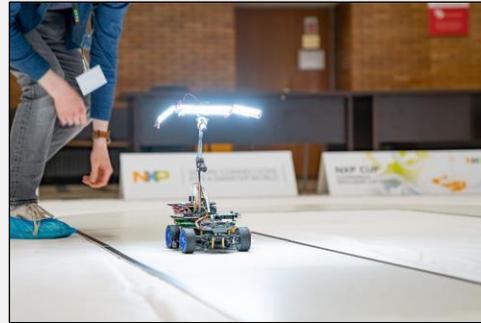
THE MISSIONS AT HAND FOR THE PARTICIPANTS OF THE NXP CUP



SPEED RACE

FASTEST LAP TIME

Manage your speed and run your car as fast as possible on an undisclosed track layout. Qualification race layouts may vary from event to event, but will keep the same overall length and difficulty level.



LAP OF HONOR

SPEED CONTROL AND OBSTACLE STOPPING

After you are done with your fastest lap, slow down the car to a crawl after the finish line and park it automatically within 10cm in front of an obstacle placed on the racetrack.



DON'T MISS NXP CUP MILESTONES



**Enroll from Oct 2nd
until Jan 15**

Sign up in
teams of 1-3
persons



**Design
Oct 23 - Mar 24**



**Qualify
April 2024**

Join one of the
EMEA in-person
qualifications
and become the
local champion



**Finals
May 2024**

Best teams will
be invited to the
Finals

CONTACTS & USEFUL INFO

For any questions or information, please contact :

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To see more about NXP Cup, please visit our website:

<https://nxpcup.nxp.com>

Useful links:

- [GitBook](#)
- [Discord server](#)
- [Community page w/ course material and starter software](#)
- [Highlights video](#)



NXP CUP
INTELLIGENT
CAR RACING





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