

## What it is?

A technical competition for students in the field of **autonomous driving**, on model cars at **1:10 scale**, mimicking **real-driving scenarios**.

## What background do you need?

The more **expertise in the team**, the better. Some of the covered topics in the project are Computer vision, Vehicle control, Hardware design, Software design, Python coding, Parallel computing and many more!

## What's there to gain?

- General overview in the field of autonomous driving
- Interaction with Bosch experts during the entire competition
- Attractive prizes
- Internship opportunities



present



## Bosch Future Mobility Challenge

## What needs to be developed?

The **minimal features** are the following:

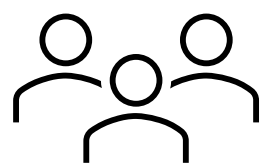
- Lane keeping and intersection navigation.
- Recognition and reaction to road elements (e.g.: signs)
- Reacting to road participants (e.g.: cars and pedestrians)
- Geo-localization-based components (e.g.: dynamic driving)
- Other driving scenarios.

## What's provided?

- Fully working model vehicle
- Firmware for car control and APIs for shared systems interaction
- Demo code for car control
- Dashboard for monitoring car states
- Plenty of documentation, guidelines and code example
- Bosch mentorship

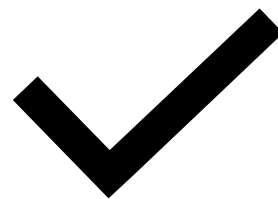


## DO YOU WANT TO JOIN? HERE ARE THE STEPS!



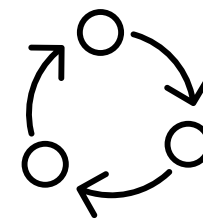
### BUILD a team

3 to 5 members and a university mentor.



### Did you get in?

Meet us for an interview and wait for the result!  
1<sup>st</sup>-13<sup>th</sup> of November 2023



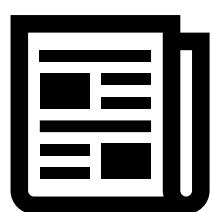
### Develop your solution

Write your code, integrate it, test it, then start over!  
15<sup>th</sup> of November 2023 → 14<sup>th</sup> of May 2024



### Competition finals

Come to Cluj-Napoca, Romania and prove that your team is the best!  
15<sup>th</sup> – 19<sup>th</sup> of May 2024



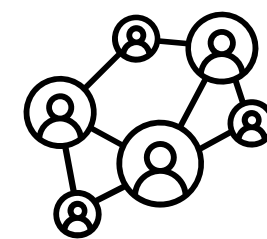
### Register

Have the team-leader register the team on the competition website  
1<sup>st</sup> – 31<sup>st</sup> of October 2023



### Let's get started!

Get your car and participate at the kick-off!  
15<sup>th</sup> of November 2023



### Qualify for the event

Stand out and qualify for the finals!  
10<sup>th</sup> of March 2024

More details on  
[www.boschfuturemobility.com](http://www.boschfuturemobility.com)

