

Bosch Future Mobility Challenge

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

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
- Plenty of documentation, guidelines and code example
- Bosch mentorship





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!
4th - 14th of November 2024


Develop your solution
Write your code, integrate it,
test it, then start over!
18th of November 2024 ->
21st of May 2025


Competition finals
Come to Cluj-Napoca, Romania
and prove that your team is the
best!
21st - 25th of June 2025


Register
Have the team-leader
register the team on the
competition website
1st-31st of October 2024


Let's get started!
Get your car and participate
at the kick-off!
18th of November 2024


Qualify for the event
Stand out and qualify for the
finals!
17th of March 2025