Bosch Future Mobility Challenge Announcement

Dear Students,

Bosch Engineering Center Cluj has launched the second edition of **Bosch Future Mobility Challenge**, an event targeted to engage you in a technical oriented competition and to offer you a professional context in order to prove your talent.

The competition offers you the opportunity to prove your abilities and to **overcome challenges in a team**. It is of great interest for us to support this commitment and to promote you, upcoming engineers. We are convinced that young talent, fresh ideas and extraordinary commitment are enormously important for the future of mobility.

We would like to invite you to participate at the **Bosch Future Mobility Challenge** by getting organized in **teams made of 3 to 5 students and a university teaching/research staff member**, in order to realize the best performing guidance system for model vehicles.

Bosch Engineering Center Cluj is going to provide you the 1:10 scale model vehicle platforms (that you can keep if you reach the qualification round) on which **you will be responsible for the conceptualization and implementation of automated driving algorithms from November 2018 until May 2019**. The competition is going to take place in **May 2019**, in **Cluj-Napoca**. There, you will have to present your know-how in front of judges from the industry and academic fields while competing with other teams by making your model complete several driving tasks as fast and precise as possible.

During this competition, you will have the chance to work with many technologies and frameworks from both hardware and software environments. You will get to work starting from programming an embedded platform all the way up to implementing artificial intelligence and computer vision solutions. Some platforms and frameworks worth mentioning are: STM32 Nucleo, Intel Movidius, Tensorflow, Caffe, RaspberryPi, ROS, OpenCV, etc.

At the end, it is not necessary that the fastest model vehicle wins. The team with the best overall package of algorithms, driving performance, project planning, and overall arguments goes home with the trophy.

Each participant team will have access to coaching from highly qualified and experienced Bosch employees, in order to realize the best performance possible.

If you feel ready for the challenge, follow the registration steps below.

Registration Steps

Registration requests have to be submitted until the 2nd of November 2018 to the following email address: ideabox@bosch.com. Templates can be found by scanning the QR code on the poster.

Each applicant team has to send one email with the following content:

- Complete registration form (mandatory)
- CVs of each team member (mandatory)
- Letter of intent (including development concept – optional)
- Relevant awards received in other contests (optional)
- Recommendation letters from University professors (optional)

After receiving all the registration requests the most promising teams will be selected and invited to a face-to-face interview.
The best teams will be selected for receiving the model vehicle platforms.

Selection criteria will be, but not limited to:

- Motivation and intention of each team
- Link between the contest topic and ongoing University projects (ex. diploma projects)
- Proven interest and experience in similar contests
- Recommendation from University professors

The registration will be revoked in case of submitting false information.
Please use the email address "ideabox@bosch.com" for addressing questions regarding the competition.

About Bosch Engineering Center Cluj

Bosch Group has been present in Romania for more than 20 years and employs over 4,800 associates in four locations: Cluj-Napoca, Timișoara, Bucharest, and Blaj.

In Cluj, Bosch opened in 2013 a Research & Development Center (Engineering Center Cluj) as well as a Production Unit (Jucu, Cluj) for automotive technology. In the production unit, Bosch manufactures electronic control units for driver assistance and energy management systems for global automotive customers.

Engineering Center Cluj is part of the worldwide Bosch Engineering network. The engineering team located partly in the heart of the city of Cluj-Napoca and partly in our offices in Jucu, gives great importance to continuous innovation and works on state-of-the-art technology projects. Autonomous driving, Internet of Things, Connected Industry (also called Industry 4.0) and electric vehicles are just a few examples from the Bosch Engineering Center Cluj's portfolio.

With a close collaboration with other Bosch research and development centers and the local Jucu plant, the young team in Cluj develops software, hardware, mechanical engineering, reliability tests and analysis, offering its clients a complex range of products and services.