

# ROBO TRAFFIC

## COMPETITION



### GOALS

- Develop sensors and systems to be implemented in the industry to reduce the number of car accidents
- Expose students to the high tech multi-disciplinary area of robots and sensors
- Build team-work capabilities

For more information, please contact: [robotraffic@technion.ac.il](mailto:robotraffic@technion.ac.il)



# The Technion's Faculty of Mechanical Engineering

is a global leader in the research and development of robotics, with world-renowned expertise in theoretical and practical implementations of robotic devices in various industries. The Faculty believes pre-university educational activities are crucial to stimulating interest in the next generation of students and has established the Leumi Robotics Center (LRC).

The Nadav Shoham Robotraffic Competition was created through the center to give students hands-on experience in providing high-tech solutions to challenges. The main challenge is to build an autonomous robotic car model which can move according to traffic rules as well as obey traffic lights, signs and signals, and keep a safe distance from other cars.

**Read more at:** <https://int.technion.ac.il/programs/robotraffic/>

Technion's 12th Nadav Shoham Robotraffic Competition will be held on:

March 6-10, 2022 - Virtual Event | March 24, 2022 - On Campus

Support will be provided by **Leumi Robotics Center**, for assistance please contact [evgenyk@technion.ac.il](mailto:evgenyk@technion.ac.il)

## COMPETITION CATEGORIES FOR VIRTUAL EVENT:

Careful driving / Racing / Reverse parking / Traffic safety initiatives / 3D CAD category / 4-Wheel Lego car category / Special automatic control basics test

## COMPETITION CATEGORIES FOR ON CAMPUS EVENT:

Careful driving / Extended careful driving / Racing / Traffic safety initiatives / Special traffic regulations and rules test / Advanced careful driving / 3D CAD category / Special automatic control basics test

## RULES AND PARTICIPANTS

Teams should consist of 1-8 students from the same school.

Student participants must be between 10-12 grade. A teacher can act as an advisor, but the construction needs to be done by the students.

**Virtual Event** - <https://robotraffic.net.technion.ac.il/virtual-robotraffic-rules>

**On Campus Event** - <https://robotraffic.net.technion.ac.il/robotraffic-rules/>

## PRIZES

**First place winners receive a full one-year scholarship to Technion International\***

\*Prizes will be awarded per student only once.

## SUBMISSION

Registration deadline: December 1, 2021 | Submission deadline: March 1, 2022

**Participation requests should be sent to: [robotraffic@technion.ac.il](mailto:robotraffic@technion.ac.il)**

**robotraffic**  
The Nadav Shoham Competition

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Israel Institute of Technology

