

Engineering Design Challenge 2.0

Drive Smarter

Short Description

The challenge this year is to design and build small self-driving cars that can compete in two games: Driving Test and Shawarma Express. To win the games, cars are expected to use sensors and control concepts to be able to operate reliably without human interaction.

Eligibility

Teams of 2 to 5 members of university or school students can be part of the challenge. International teams are also welcome to join.

Training & Workshops

AUB Robotics Club is holding training sessions for participating teams during October and November. The training will cover practical aspects in manufacturing, electronics, instrumentation, communication, control, and computer vision.

Time & Location

The challenge will take place on February 12, 2017 at the Charles Hostler Student Center, in the American University of Beirut.

Judging

- **On-challenge-day Performance (60%):**
60% of the total points will be given based on the robot's performance on the challenge day.
- **Technical Assessment (40%):**
The remaining 40% will be based on design evaluation executed by a team of judges from different universities, according to pre-defined judging rubrics.

Awards

The first 3 places overall will win monetary prizes of \$1500, \$1000 and \$500 respectively. More awards and titles will be granted for teams that demonstrate proficiency in certain aspects.