

## **Autonomous Auto Race Competition at CES 2022**

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A very interesting event was held at the Las Vegas Motor Speedway on January 7, 2022

Five teams of students from universities around the globe got together at the racetrack to compete in the time trial of autonomous race cars that each team had created.

Each team used a specially designed car, the Dallara AV-21, the most advanced autonomous racecar.

The Dallara AV-21 features three Luminar Hydra LiDAR sensors to provide 360-degree long-range sensing, which enables safe autonomy at high speeds. Each team had to design controls and electronics to safely maneuver their cars around the track.

[Halo](#), a remote-piloted driverless car service operating on T-Mobile's 5G network served as the official pace car, leading each set of IAC ([Indy Autonomous Challenge](#)) teams off of pit lane and completing a warmup lap at speeds of 65-80 mph before the start of each round.

Each pitted their car against another in a head-to-head race featuring, among other things, a passing competition.

Polimove won the competition, gaining the first prize of \$150,000. [Polimove](#) is a partnership between Politecnico di Milano of Italy and the University of Alabama. TUM [Technische Universität München](#) (Germany) won the \$50,000 second prize.

Each team was made up of 5-7 members, who had worked together for many months to produce a racecar that was satisfactory.

The head-to-head race involved successfully driving the Las Vegas Speedway for several laps and making a safe pass of another car. Polimove had the highest speed of 173 mph.

The call to action for this competition has been remarkable, with 41 university teams initially signing up to compete more than 2 years ago, representing top engineering and technology programs from 14 U.S. states and 11 countries. The IAC first made history on October 23, 2021, when it held the Indy Autonomous Challenge Powered by Cisco, the first high-speed autonomous racecar competition at the Indianapolis Motor Speedway.

See

<https://www.therobotreport.com/polimove-wins-autonomous-challenge-ces-race/>

and

<https://www.autoexpress.co.uk/news/357048/autonomous-cars-compete-173mph-self-driving-oval-race-ces-2022>