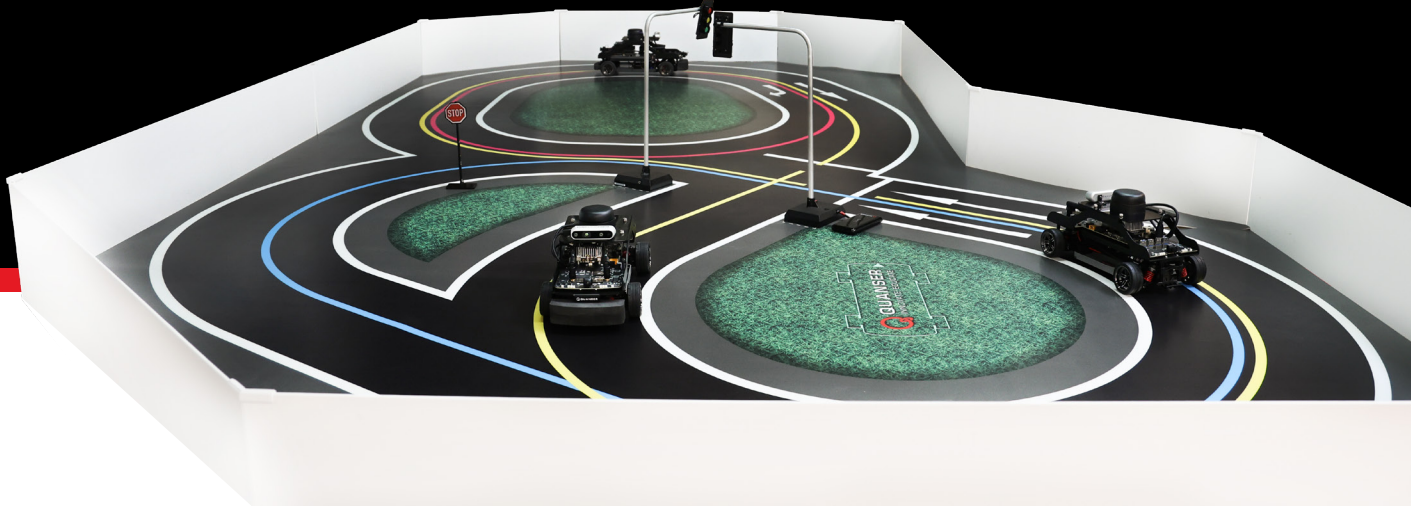


# STEM INTERACTIVE EXHIBIT: SELF-DRIVING AND APPLIED AI

Captivate visitors with a ready-to-use exhibit showcasing modern self-driving and applied AI technology



The Quanser STEM Interactive Exhibit demonstrates exciting self-driving technologies in an accessible and interactive scenario that highlights some of the critical systems that are used by modern vehicles today.

The exhibit is designed to be a simple solution for a wide variety of campus teams including faculty, summer programs, administration, and outreach departments to make their university teaching and research stand out.

## Engage and Inspire

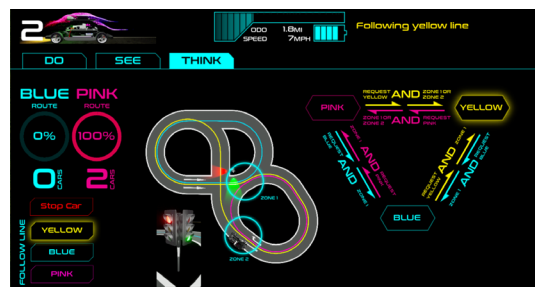
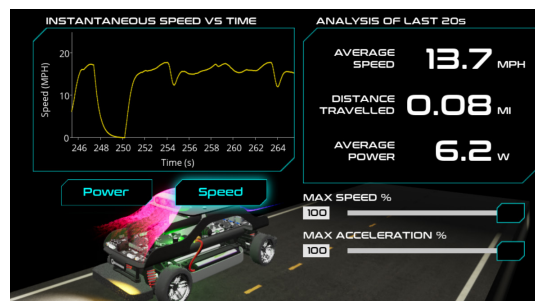
Bring engineering concepts to life with a meaningful STEM experience that sparks curiosity and motivation among audience.

## Connect With More Audience

Effortlessly setup and tear down a compact exhibit to expand your opportunities to leverage your investment across the department and institution.

## Worry Free

The comprehensive package includes everything you need from tools and software to suggested sample scripts for various experience levels.



## Exhibit Overview:

Audience gain a hands-on understanding of each element of an intelligent system and participate in pre-defined activities and challenges through the app interface:

**SEE:** Participants watch what the vehicle is currently seeing from the camera point of view.

**THINK:** Participants observe the operation of a state machine and artificial neural network as they work together to control the behaviour of the vehicle.

**DO:** Participants get visibility into the power and energy

usage of the car and have the ability to modify the speed and acceleration of the vehicle and monitor those effects on the power system. They can monitor and change car signals, like turning lights on/off or even honk.

**TALK:** Each car communicates to the control station laptop which can adjust the traffic light to achieve the optimal flow of traffic.

**INTERACT:** Participants are encouraged to place traffic signs along the border of the track to observe their effect on the behaviour of the vehicles.



## Exhibit Components:



**Control Station  
Laptop**



**Map and  
Borders**



**Traffic Lights  
& Signs**



**WIFI  
Router**



**Guided  
Experiences**



**QCars  
(Sold separately)**

## About Quanser:

For over 35 years, Quanser has empowered over 2500 global academic institutions to tackle the challenges of the modern world by transforming engineering education and research. As educators with pedigree in controls, robotics, and mechatronics, we understand the needs of academia, and are therefore able to help accelerate academic success by improving student motivation, practical experiences, and outcomes. With a unique approach to innovation, collaboration, and education we have produced several notable technology firsts that pioneered many critical contemporary trends.

Learn more:  
Self Driving Teaching & Research

