

News in ENGINEERING TECHNOLOGY



Crash Test Project

The objective was to design a PVC vehicle to be driven by a 50th male ATD to pass the major injury criteria from the National Highway Traffic Safety Administration (NHTSA) for Head, Thorax, and knee, but for an 18-mph crash.

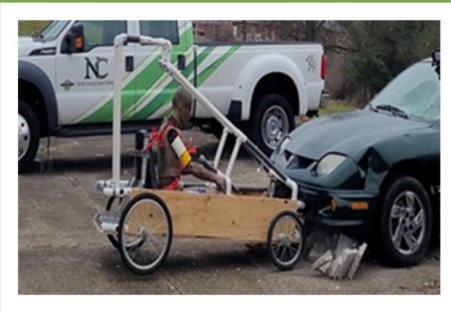
These types vehicles are used in our EV racing at Mid-Ohio Sports Car Course. The final version of the vehicle would be crashed at the Honda R&D center in Marysville, Ohio crash facility.

The project span three designs with an engineering review between each crash to determine next steps. The first two crash tests were conducted at North Central State College. Once the results looked promising from the first two tests, a third design was completed and sent to Honda. The results from these tests with a fully instrumented ATD achieved good results. The front crush zone and seat belts worked as intended.

Mid-Ohio EV Racing Conference Page 2



1st Crash Test



2nd Crash Test



3rd Crash Test

Mark Your Calendars!

May 1, 2024

4:00 to 6:00 PM

Mid-Ohio Sports Car Course



FREE ADMISSION

Join North Central State College and partnering school's engineering technology students at Mid-Ohio Sports Car Course as they take their capstone projects around America's premier road racing courses! The students will spend the day displaying and racing their own design of electric, autonomous, and experimental vehicles.

Mid-Ohio EV Racing Conference



MID-OHIO SPORTS CAR COURSE



LEXINGTON, OHIO

On October 27th the new season of Electric Racing was kicked off at our annual Team Meetings held at the Mid Ohio Sports Car Course. Teams from North Central State College, Pioneer Career and Technology Center, and Edison Community College are the participants in this year's race in April 2024.

The teams meet in October each year to review rules for car construction and driver safety. Mid-Ohio provides driver's training that can be used for the EV race as well as for the students' regular cars.

At the completion of the conference, the teams walked around the track they will be racing on, led by the driver training personnel from Mid-Ohio. 9 teams attended this year's meeting. Race day will be announced at a later date.



EV Conference



Driver's Training



Walking the Track

Mechanical Engineering Technology, AAS program:

<https://ncstatecollege.edu/associate-degrees/mechanical-engineering-technology/>

Mechanical Engineering Technology, BAS

North Central State College's Bachelor's program in Mechanical Engineering Technology (BASMET) is the advanced practical application of engineering and scientific principles for the purpose of designing and manufacturing quality products and systems. The program utilizes Project Based Learning to provide students working individually and in teams, hands on learning. Additionally, training in cutting edge computer software is complemented with instruction in mathematics, science, and engineering analysis to provide our graduates with a solid foundation for implementation of design and manufacturing solutions. Graduates of the (BASMET) program are prepared to compete in a competitive job market and assume a wide range of responsibilities in industry.

NC State College ~ 2441 Kenwood Circle ~ Mansfield, Ohio 44906 ~ 419-755-4800