

**28<sup>th</sup> Annual  
Micro-Electric Vehicle Competition**

Wednesday, May 7, 2025

Yazaki North America, Inc.

6801 Haggerty Rd. Canton, Michigan 48187

SAE Detroit Section would like to extend an invitation for local high school students to participate in the 28th Annual Micro-Electric Vehicle Competition. The competition will take place on Wednesday, May 7, 2025 at Yazaki North America, Inc. in Canton. Pizza and beverages will be provided for all students and guests. Registration will begin at 2:00 p.m., with the competition beginning promptly at 3:00 p.m.

The objective of this competition is for team of up to four students to build a small vehicle powered by a single AA battery. The vehicle must be capable of pulling an attached trailer up an inclined ramp in a head-to-head, multi-round heat race format to advance to the final championship round. There are three categories within this competition: individual design, individual performance and overall school team score. Each school is eligible to bring up to eight vehicles, four in each of the vehicle classes.

**NOTE: Maximum of (8)** vehicles per school can enter the competition with up to four in each class.

**Overall** – Top three schools with the highest score in both the design and performance competition will receive trophies and cash awards.

**1st Place \$2,000**

**2nd Place \$1,500**

**3rd Place \$1,000**

**Design** – Trophies and cash awards will be given to the top three teams based on overall design and engineering concepts used in their written paper and oral presentation.

**1st Place \$200**

**2nd Place \$150**

**3rd Place \$100**

**Performance** – The top three teams in each category of the performance competition will receive trophies and cash awards.

**Capacitor:**

**1st Place \$200**

**2nd Place \$150**

**3rd Place \$100**

**Non-Capacitor:**

**1st Place \$200**

**2nd Place \$150**

**3rd Place \$100**

If you are interested in participating, please fill out the registration form by **Wednesday, April 16, 2025**. Design Competition papers are due at this time too.

# Micro-Electric Vehicle Competition Registration Form Wednesday, May 7, 2025

Yazaki North America, Inc.  
6801 Haggerty Rd., Canton, MI 48187

*Registration and papers must be submitted by Wednesday, April 16, 2025*

School:		
Teacher name:		
Teacher phone:	Cell:	
Email address:		
Address:		
City:	State:	Zip:
Has your school participated in this competition before? Yes _____ No _____		
Total number of vehicles <b>(limit 8 per school)</b> :		
Total number of team members <b>(limit 4 per vehicle – both capacitors and non-capacitors)</b> :		

**Important notes:**

- No more than (8) vehicles per school with a maximum of (4) team members per vehicle
- Participants must be high school students
- If your registered team cannot attend, please contact Stephanie Alexander at [stephanie.alexander@sae-detroit.org](mailto:stephanie.alexander@sae-detroit.org) or (248) 324-4445 ext. 3 as soon as possible

**All forms should be email to [stephanie.alexander@sae-detroit.org](mailto:stephanie.alexander@sae-detroit.org).**