

## Automotive Foundations STEAM Workshop for Youth

**Saturday, July 26 & Saturday, August 2, 2025**

10 a.m. to 2 p.m. each day

Box lunch, water and snacks provided

Fee: \$100 or \$50 per session

Includes 2 free passes to the museum's "Detroit Wheels" exhibit July 16 through August 17, 2025

Scholarships available by emailing [info@fordpiquetteplant.org](mailto:info@fordpiquetteplant.org)

Register online at [www.fordpiquetteplant.org](http://www.fordpiquetteplant.org) or call to request an enrollment form by mail

Free parking available in the museum lot



Automotive Foundations is a historical and hands-on STEAM workshop for youth ages approximately 14 to 21 presented by the Ford Piquette Plant Museum, the birthplace of the legendary Model T. This program is led by mechatronics and mechanical engineer, Daniel Hodges, founder of Meknology, Inc. in collaboration with Lawrence Technological University.

**What to expect:** Students will learn about the design and function of the first Model T gasoline engines and electric vehicles of the early 1900s. Through interactive lessons and guided builds, they will construct both a basic gasoline engine and simple electric motor. Students will explore how modern internal combustion and electric systems evolved with an emphasis on innovation, historical impact and sustainability. The workshop concludes with Model T driving demonstrations and rides!

### Saturday, July 26

- Tour & Talk – Guided tour of historic vehicles and their engines
- Resource session with Engineer-in-Residence, Daniel Hodges
- *Lunch break onsite*
- Build Session – Assemble specially prepared four-stroke motors with assistance from instructors; required safety equipment provided



Meknology at Newlab

### Saturday, Aug. 2

- Tour & Talk – Guided under-the-hood tour of early electric vehicle motors in the museum
- Resource session with Daniel Hodges to discuss functionality and evolution of electric motors
- *Lunch break onsite*
- Build Session – Youth will each assemble an electric motor to keep, kits provided
- Model T driving demonstration and rides for students