

# The ME Connection

May 2024



*"Persistence and resilience only come from having been given the chance to work through difficult problems."*

- Gever Tulley

## Class of 2024

Congratulations to the newest UE ME alumni! Talk about a resilient class. Four years ago, these seniors were starting college during the pandemic. They have worked through times of uncertainty and unexpected challenges. They have adapted to changes and lived through historical moments. Amidst it all, they have led student organizations, studied abroad, completed internships, and earned their Bachelors of Science in Mechanical Engineering. We look forward to hearing more about where life takes them after UE!



Not pictured: Wade Dixon, Matt Ford

## ASME and ASCE Students Host Cookout for SECS Community



A big *thank you* to our ASME student leaders for organizing an end-of-the-semester event for all SECS students, faculty, and staff. With co-sponsorship from ASCE, they grilled hamburgers and hot dogs as students gathered to relax and play some games before final exams. It was great to see everyone taking a break together, and we look forward to future events!

## Order of the Engineer

Members of the Class of 2024, along with alumni Mary Miller and Paul Simms, were inducted into the Order of the Engineer this April. After accepting the Obligation of the Engineer, a creed similar to the Hippocratic Oath pledged by medical professionals, new members of the Order received a certificate and a stainless-steel ring to be worn on the fifth finger of their working hand. The ring is a visible symbol of the pledge to uphold the standards and dignity of the engineering profession.



### Alumni are eligible!

Are you an ME alum that has not joined the Order of the Engineer? We will be conducting our next initiation ceremony in April and are extending an invitation to alumni. To learn more about joining, email us at [mechanicalengineering@evansville.edu](mailto:mechanicalengineering@evansville.edu)

## Mechanical Engineering Advisory Council

The ME faculty would like to thank our MEAC members for visiting campus last month to meet with current students and share perspectives from their industry and experiences.



We'd love to share what our alumni are doing!  
Please submit a photo and short blurb to:

[mechanicalengineering@evansville.edu](mailto:mechanicalengineering@evansville.edu)



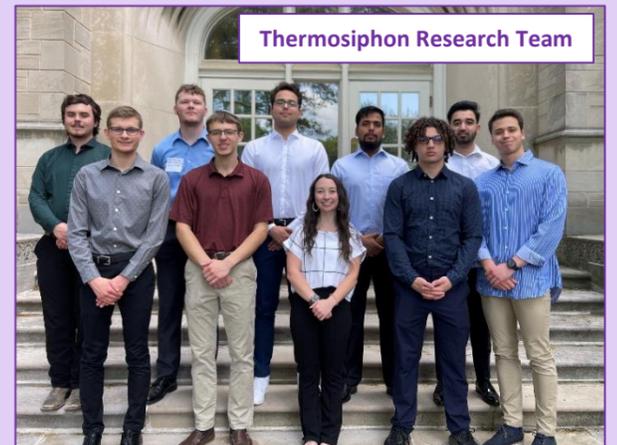
## Student Spotlight: Project Teams



SAE Baja Team

The SAE Baja team, led by senior Zach Eagan, designed, built, and tested an off-road vehicle (pictured left) following the SAE competition guidelines. Design considerations included adjustable components to accommodate drivers with height differences up to one foot.

The Thermosiphon Research Team, led by senior Bradan Bruce, conducted multiple experiments to explore factors that impact efficiency in the passive solar water heating system. The team presented their results at the National Conference for Undergraduate Research.



Thermosiphon Research Team



ME 297 Team

A sophomore ME 297 student team designed a mechanical device inspired by the game whack-a-mole, using multiple out-of-phase Scotch Yoke mechanisms. The team created 3D models, conducted motion analysis in NX, and fabricated their designs using UE's CNC machines and 3D printers.

A freshman ME 197 student team designed a Rube Goldberg Machine to achieve the national collegiate competition goal of putting toothpaste on a toothbrush. This seemingly simple task was completed using a complex series of steps, requiring at least 15 energy conversions, within 4 minutes.



ME 197 Team

Q: What do you get when you divide the circumference of a bowl of ice cream by its diameter?

A: pi à la mode!