

The ME Connection

May 2023



"An investment in knowledge pays the best interest." - Benjamin Franklin

Class of 2023

Congratulations the newest UE ME alumni! We will miss seeing you around campus, but we look forward to hearing more about where life takes you. Keep in touch!



As we wrap up the academic year with student highlights, the June newsletter will feature more alumni updates. Please send us an email if we can celebrate any recent changes in your career or share your story as a spotlight.



Networking with ASHRAE

A group of students attended a joint meeting of the local ASHRAE, ASPE, and SMACNA chapters in April. ASHRAE speaker Steve Ehrman, PE, LEEDAP, presented on Low GWP Refrigerant Advancements for Decarbonization, and upcoming policy changes for the industry. John Mills of Damsel Brew Pub also discussed the heating and refrigeration needs of a microbrewery.



Order of the Engineer

Members of the Class of 2023 were inducted into the Order of the Engineer last month. 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 Spring 2024 and extending an invitation to alumni. To learn more about joining, email us at mechanicalengineering@evansville.edu



Mechanical Engineering Advisory Council

UE's Mechanical Engineering Advisory Council (MEAC) and faculty met in April to review the ME program and discuss industry trends. MEAC members, many of whom are ME alumni, provide valuable insights across various career paths. Thank you to our MEAC members for visiting campus, meeting with students, and sharing your feedback!



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

mechanicalengineering@evansville.edu



Student Spotlight: Student Project Teams

Underclassmen participated in 3 senior-led Integrated Design project teams. Brief highlights of team accomplishments include: This year's Rocket team successfully launched and recovered a high-powered rocket carrying a payload with automated cameras to complete tasks upon landing. The Thermosiphon team presented findings at the National Conference on Undergraduate Research (NCUR) and built a team mentoring model. The Baja team successfully implemented four-wheel drive, a new design for UE, and installed inboard rear brakes. Great work this year, Aces!



Thermosiphon Research Team



NASA Rocket Team



SAE Baja Team

ME 297 Class Projects

Two sophomore student teams designed mechanical devices using specific motion conversion mechanisms, such as a Scotch Yoke. The teams designed every element of the device, including the gears, linkages, hand crank, and other components, to fit within a limited work envelope.



The teams 3D modeled and fabricated their designs using UE's CNC machines and 3D printers. According to the teams, the biggest lesson was learning to design interfaces between moving parts.

Top: Dani Santos Lopez, Gracie Davidson, and Jakob Grundbacher.
Left: Lydia Preske, Nick Taylor, and Sam Morgan.

