The ME Connection

UE Mechanical Engineering Newsletter

June 2025

"Your education is a dress rehearsal for a life that is yours to lead."

- Nora Ephron

Celebrations!

A warm welcome to the Class of 2025 as our newest UE ME alumni! You did it! We will miss seeing each of you around campus, but we cannot wait to hear about where life takes you and to celebrate your future successes. Be proud of your accomplishments, challenge yourself, and don't forget to wear purple on Fridays!





Dean's Teaching Award

Congratulations to Dr. Douglas Stamps on receiving the 2025 Dean's Teaching Award for the School of Engineering and Computer Science! Dr. Stamps is well known for his teaching effectiveness. As a UE alumnus, he continues to share his experience, knowledge, and humor with ME students in courses including ME 101, Thermodynamics, Thermo-Fluids Lab, Fluid Mechanics, Combustion, and the senior capstone experience.



New Student Opportunities

Earlier this year, UE began accepting the Indiana College Core, a block of general education credits that students can earn while still in high school. This will increase flexibility in student schedules, with more potential for dual-degrees, concurrent co-ops, or earlier graduation.



Congratulations Corner

Class of 2020 Congratulations to Dr. Ahmed Othman on successfully defending his dissertation to earn his PhD in Mechanical and Aerospace Engineering from Princeton University! Dr. Othman inspired Adaptive Morphology Laboratory. Their work has been published in multiple academic journals and featured in Wired Magazine.



Adjunct Instructor Pool

Are you interested in sharing your expertise? The ME Program is looking to build our adjunct pool for occasions when help is needed. To be considered for adjunct opportunities, please email your resume and a brief statement of interest, including any specific course(s), to mechanicalengineering@evansvillle.edu. Course listings can be found on the ME webpage, and there is flexibility to propose relevant topics for ENGR 189-Technical Skills, or ME 499 Special Topics.





We want to celebrate our alumni! Please submit a photo and short blurb to:

Course-based projects, including opportunities to join senior-led projects, challenge students to design, build, and test a system while practicing teamwork, project managements, and professional communication skills.

mechanicalengineering@evansville.edu





Spotlight: Student Projects

ME 197: Integrated Design I

KOCH CENTE FOR ENGINEERING AND SCIENCE



Students in ME 197 learn more about technical drawings, manual machining techniques for project fabrication, and helpful tools for the engineering design process and design teams. The course-based project followed the official Rube Goldberg Machine Contest® rules. A complex, and entertaining, device was designed and built to "feed a pet." The team's machine included at least 14 energy transfers and was themed for Scooby-Doo with the final step releasing Scooby Snacks into a bowl.

ME 397: Integrated Design III

As part of ME 397, students learn more about measurements, instrumentation, and experimental uncertainty. Project work emphasizes data collection and experimentation. This year's team created a LabVIEW Virtual Instrument (VI) to acquire digital measurements while investigating Venturi undertray designs for the SAE Formula car using a wind tunnel.

"The Venturi testing we have completed was performed as a validation of the ME497 Formula One team's expected data and performance from their similar Venturi. This testing included both pressure testing and strain testing with a force plate mounted to the bottom of the model in a wind tunnel to explore the pressure and deflection resulting from a Venturi. The team has greatly benefited from the experience and learned valuable lessons from the data collected." - Gavin Justis

The ME Connection will be on Summer Break in July – see you in again in August!