

I am entering my 5th year as a Senior Lecturer for the Department of Engineering Education (EED), formerly known as the Engineering Education Innovation Center (EEIC). In addition to helping in the transition to a department, I have utilized my Industrial Systems Engineering background to help with our strategic planning. I currently teach the first-year, or fundamentals of engineering courses, typically with ENGR 1181 and 1182. After a 3-year pilot, we are officially teaching ENGR 1138 in AU17: an innovative math course taught through engineering principles and hands-on labs. Students are taken through a combination of review and preview of math topics ranging from algebra to differential equations. We also integrate best practices and community building throughout the course, helping them to be successful in other classes and outside the classroom.

I personally strive with all of my classes to focus on student engagement and excitement with engineering. After hearing how many students were transferring out of engineering during or after their freshman year, I decided to focus on how to improve their experience in their first year. Some things can be integrated with the required first-year curriculum, like weekly tips and discussion boards, engineering commonplace books (piloting AU17), new hands-on labs, the game creation project in MATLAB, and more open-ended opportunities and prototyping with the AEV design project. Engineering in Film & Media is a different approach to tapping into creativity, excitement, and engagement with engineering from a familiar place: media. Students will also be given a platform to explore their own views and self-efficacy in engineering, while practicing professional writing that is derived from a creative point of view. This balance of ideas and opportunities aims to engage the student who may not be fully engaged in engineering through typical curriculum.

May: Presented a [Poster](#) at The Academy of Teaching: *Development of Hands-On Engineering Labs: Relating the Real-World to the Classroom*.

July: Earned a grant from the Oak Ridge Associated Universities ([ORAU](#)) to include an AgTech Zone at [HackOHI/O](#) 2017, to show students technological opportunities in agriculture, while providing workshops and mentorship from local agriculture experts.

August: Earned a local community grant from [Columbus SOUP](#) for my work with the Neighbors Grow program (website coming soon), a new approach to building home gardens and a sense of community in under-served neighborhoods.