



Engineering Academy: Advanced STEM

Career-Technical Education Program News from the Six District Educational Compact



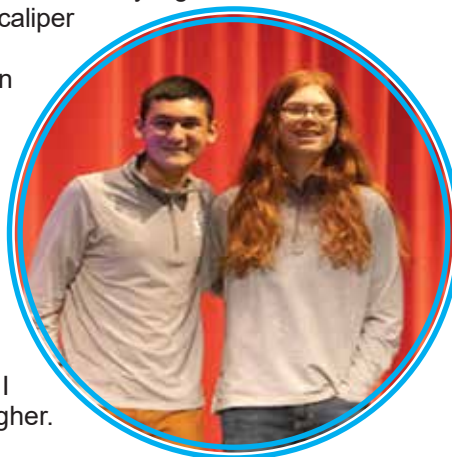
Celebrating Success!

Every spring, the Engineering Academy holds the Celebrate Success event. This program is an opportunity to highlight the great successes that our Engineering students achieve throughout the school year. Students, instructors, family members, and school staff attend. Here are a few of the accomplishments that were recognized in April 2024.

Luke Metoki (Hudson) and **Sam Nester** (Stow-Munroe Falls) were awarded the Future Engineer Award. They were selected by the Academy team based on their dedication to seeking knowledge purely for the goal of learning and excelling in all their academic and technology classes throughout the entire year.

Three Level II students were recognized as Outstanding Technology Students: **Ethan Hammonds** (Stow-Munroe Falls), **Bryan Harper** (Stow-Munroe Falls), and **Ashlyn Sutton** (Hudson). Within the three technology areas, they went above and beyond each day and were consistently high performers. They were each given a digital caliper and micrometer set.

Many Academy students are enrolled in Advanced Placement coursework and find great success and our students' May 2024 scores were no exception. 93% of Level I students who took the AP Calculus AB exam scored a 3 or higher and all Level I students who took this exam scored a 4 or higher (the national average is 64.5%). The national average on the AP Physics I exam is 2.5; our Level I students scored an average of 3.86, and 85% of our Level II students earned a passing score of 3 or higher.



Success Story



Sydney Golden

Sydney Golden is a 2020 graduate of Theodore Roosevelt High School and an Engineering Academy completer. In May 2024, Sydney graduated from The Ohio State University with a degree in Food, Agricultural, and

Biological Engineering and currently works as a Transmission Line Engineer at *Kiewit*, a large construction and engineering organization.

Sydney shares, "I would recommend the Engineering Academy to students interested in a career in any engineering discipline. The program did a great job of introducing me to the vast world of engineering and equipping me with a strong skill set for college. Students can count on being well supported throughout their time in the Engineering Academy."

Job shadowing opportunities

Job shadowing provides students with excellent exposure to a variety of different professional opportunities. As part of his Level II capstone project, senior **Ethan Hammonds** pursued a job shadowing opportunity at *Boeing* in Huntsville, Alabama. He showed amazing initiative by reaching out to *Boeing* and setting up a two-day job shadow where he was able to interview mechanical engineers. Ethan used his physics knowledge in thermodynamics to help the *Boeing* engineers solve an actual problem they were having with the Atlas V Rocket. He was also fortunate enough to go through a mock interview with the engineers from *Boeing*.



Ethan Hammonds



Six District Educational Compact

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Interview Day

Not only do Engineering Academy students complete outstanding academic and technical coursework, but they also work on professional skill development. Level II students take part in a formal interview experience where they create a resume and interview with a Roosevelt administrator. This experience allows students to work on the necessary preparation and professionalism for finding employment. The feedback from the interviewers was positive, as the students were ready to answer questions with examples from their academics, work, and extracurricular activities. They are now prepared to interview for future scholarships, collegiate programs, and jobs.



Rogan Allen



Luke Metoki



Evan Updegraff

Engineering students named National Merit Semifinalists

Congratulations to Engineering Academy seniors **Rogan Allen** (Stow-Munroe Falls), **Luke Metoki** (Hudson), and **Evan Updegraff** (Stow-Munroe Falls) who were named National Merit Semifinalists based on their PSAT scores. More than 1.3 million students took the PSAT, with only 16,000 nationwide selected as semifinalists, representing less than 1% of the nation's graduating seniors. These students are eligible to apply to compete as finalists for National Merit Scholarships to be awarded this spring.



Above, Catapult competition winners Sydney Gallegos (Hudson), Taylor Bennett (Stow-Munroe Falls), John To (Tallmadge), Brandon Claridy (Kent), Luke Metoki (Hudson)



Above left, Most Aesthetically Pleasing Bridge winners Xander Wood (Kent), Abby Cerutti (Hudson), Annie Liedtke (Kent)

Competitions provide hands-on experiences and fun

Engineering Academy students apply what they learn through a variety of different hands-on experiences and projects and sometimes, friendly competitions take place! The annual catapult competition is a favorite. Students are tasked with building a catapult that fits in a meter-squared box and can hit a target from three meters away and also launch for distance. The winning team, pictured above, took home first place for both accuracy and distance.

Every year, Level II students compete in the Miniature Bridge Building Competition held at the Summit County Fairgrounds. In teams of two or three, students have just over three hours to build a balsa wood bridge that matches previously submitted and approved drawings. Upon completion, the bridges are weighed and tested to see how much weight they can hold. Last year, one of the Engineering teams took home the prize for Most Aesthetically Pleasing Bridge.