



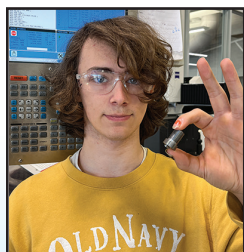
Computer-Aided Design (CAD) AND Engineering Technologies

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

New, state-of-the-art facility opens; honored by the city



District BOE members, administration, and instructors Troy Spear and Jeff Bee accept the 2025 Tree City Economic Development Award at the City of Kent's annual event



Aiden Looper



Taylor Cohen



Desiree Holliday

In early 2025, the Engineering and Advanced Technologies Center at Theodore Roosevelt High School was completed with funding from a \$2.3 million grant through the State of Ohio's Career Technical Construction Program.

Home to the Computer-Aided Design and Engineering Technologies program, the 3,500-square-foot, state-of-the-art facility features cutting-edge, industry-standard equipment and provides authentic learning experiences that prepare students for in-demand entry-level careers. This fall, the City of Kent recognized Kent City Schools' commitment to strengthening the local manufacturing talent pipeline by awarding the district a 2025 Tree City Economic Development Award.

Aiden Looper (Stow-Munroe Falls) was the first to draw, program, setup and run a CNC lathe practice part. **Taylor Cohen** (Hudson) and **Desiree Holliday** (Kent) are pictured exploring and testing out new equipment in the new space. Students are also enjoying working in the original lab, which has been newly laid out and houses updated equipment, including new welders.



Success Story



Jeremiah Berkey, Computer-Aided Design and Engineering Technologies completer and 2024 graduate of Tallmadge High School, is currently working as an Electrical Technician at Integra, in Akron. He accurately wires and connects large- and medium-voltage conductors to equipment used in data centers. These power supplies are several megawatts in size. "The CAD & Engineering Tech program showed me how to professionally interview and conduct myself in various situations. I wouldn't have this job without those skills I learned along the way. The instructors' caring nature and willingness to help encouraged me to continue in this profession." Recently, Jeremiah was just able to buy his own home on 3 acres, where he is currently working on multiple projects. He looks forward to continuing to build out his own workshop.



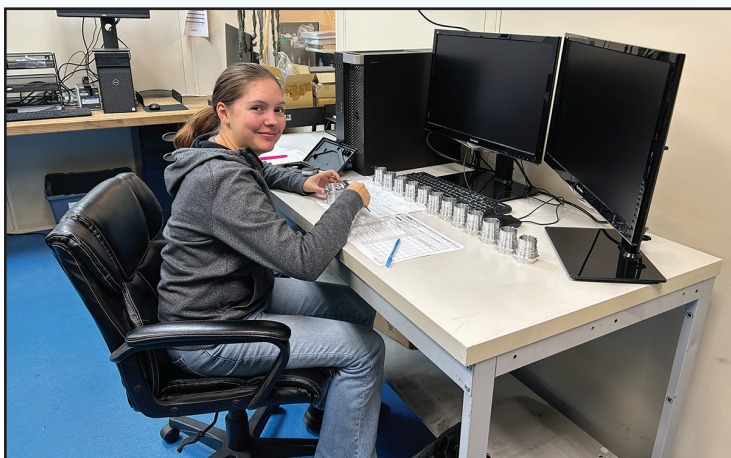
Six District Educational Compact

Cuyahoga Falls • Hudson • Kent • Stow-Munroe Falls • Tallmadge • Woodridge

Mary Jane Stanchina, Executive Director
2386 Hudson-Aurora Road, Hudson, OH 44236
Phone: 330-655-2247 • www.sixdistrict.com



William Rodesheim, alongside the car he was able to purchase while interning at Copen Machine



Grace Johnson interning at OGS Industries

Building skills, confidence, and experience through student internships

Level II Computer-Aided Design and Engineering Technologies students **Grace Johnson** (Kent) and **William Rodesheim** (Kent) are gaining valuable, hands-on experience through internships made possible by the program.

Grace completed a summer internship at OGS Industries in Akron, where she supported the engineering team by creating CAD drawings using SolidWorks and Autodesk Fusion 360, reverse engineering parts, and assisting with CNC machine connectivity. She returned for a senior-year placement and now works in the metrology and quality departments, inspecting aerospace and automotive components using blueprint reading, precision measurement, and CMM technology.

William interned at Copen Machine, where he was mentored by a senior machinist in the mill/turn department. He is now responsible for machine setup and operation on a Takisawa mill-turn, earning recognition for his technical skills and professionalism.

These partnerships strengthen local industries while preparing students for postsecondary education, advanced training, and high-demand careers—ensuring a strong pipeline of skilled, future-ready talent.

Students gain industry exposure and skill development at manufacturing trade show

CAD and Engineering Technology students traveled to the Design-2-Part Show in Akron early this fall, where they explored a wide range of advanced manufacturing technologies, vendors, and processes. The experience gave students valuable exposure to real-world applications of the skills they are developing in the classroom.

During the visit, students engaged in hands-on learning with two metrology and inspection leaders, FARO and KEYENCE. In vendor labs, students operated a FARO Arm with laser scanning technology and a handheld CMM probe, gaining firsthand experience with measurement tools capable of micron-level accuracy—smaller than the width of a human hair. Students measured multiple parts and tested the tolerance and precision of components they had personally manufactured.

These experiences directly connect classroom learning to industry practice. Students encountered the same inspection technologies used by local employers, including Prospect Group, where level II senior **Brennen Harger** (Cuyahoga Falls) is currently an intern. Prospect Group utilizes multiple FARO Arms and stationary CMMs to inspect aerospace and Department of Defense components, reinforcing the relevance and career readiness value of these learning opportunities.



Aaron Zanitdinov (Cuyahoga Falls) operates a FARO arm with assistance from a FARO representative

Kane Fahli (Kent) operates KEYENCE manufacturing equipment while a KEYENCE sales member provides guidance



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