

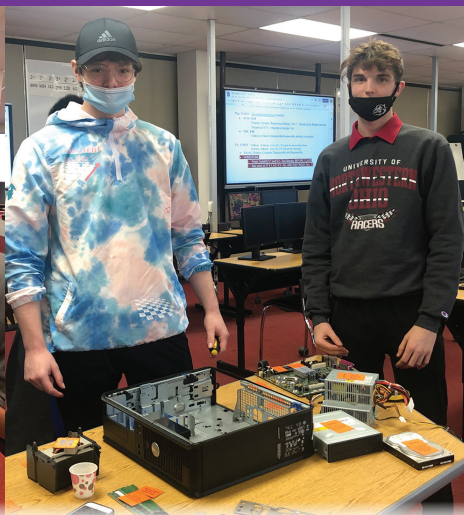


# Programming and Software Development

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



**Stow-Munroe Falls students Elijah Rogers and Cameron Stone gain hands-on experience**



**Roosevelt students Miles Keffer and Matthew Richards working on the computer hardware**

## Hands-on-experience in the classroom

In addition to learning about programming, web development and databases, students are studying Information Technology essentials such as computer hardware, computer software, internet technologies, networking, information systems, cybersecurity, and IT career preparation. Students also have the opportunity to earn CompTia IT Fundamentals Certification. An example of one of the hands-on activities that students complete involves disassembling a desktop computer, identifying and explaining all of the hardware components, and then reassembling the computer.

## Educator award

Congratulations to **Mrs. Terri Whitmer**, Instructor of Programming & Software Development at Stow-Munroe Falls High School. She is a 2021 recipient of the GCP RITE Teacher Reward Program for being a highly engaged teacher by promoting, supporting and engaging students in multiple IT career awareness, exploration and immersive skills-based programs including the CoolTech Challenge and Showcase, Passport to IT Careers, and IT Career Conversations. This special recognition is honored by RITE which is the leading industry-driven IT workforce alliance in Northeast Ohio along with the Greater Cleveland Partnership who work together to influence IT talent and awareness by building interest, skills, knowledge, experience and connections between students and local IT industries. In addition, Stow-Munroe Falls High School and the Six District Educational Compact have received the GCP RITE Premier School certificate.



## Success Stories



**Tara Khanal**

**Tara Khanal**, '18 Cuyahoga Falls graduate and Programming and Software Development completer will be graduating from The University of Akron with a BS in May, 2022. Tara is currently employed in a paid internship with Progressive Insurance Headquarters in Mayfield Heights, Ohio.



**Jacob Goodin**

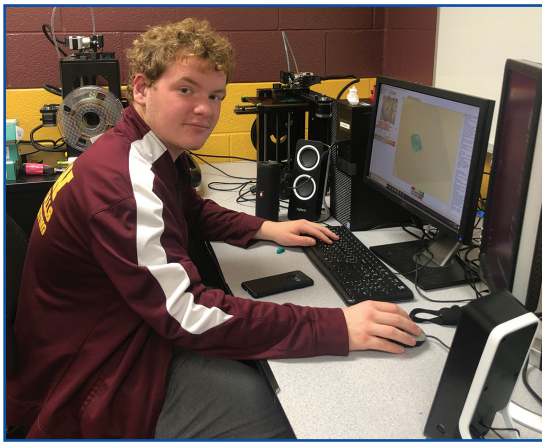
**Jacob Goodin**, '18 Tallmadge graduate and Programming and Software Development completer is currently a Computer Engineering major at The University of Akron, where he is in his fourth year of a five-year program. Jacob just landed a paid internship with Goodyear in Global Technology - Digital Data Platform!



**Six District Educational Compact**

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

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**Cameron Stone** (Stow-Munroe Falls), working on his 3D Capstone Project



## Senior capstone news

**Cameron Stone** (Stow-Munroe Falls) is developing 3-D design skills and is also creating a website for his future 3-D Printing business called Mori Prints. His fascination with 3-D objects started off as a hobby, and he soon realized there is a great need for 3-D printing and has chosen to expand on this for his senior capstone. He is learning to develop 3-D prototypes using OnShape and Slicer. He began by taking custom orders for 3-D items, designing them and printing items for people. This led to the realization that there was a demand for these products and decided this would be an ideal future business. Cameron also volunteers his time in the high school's MakerSpace, assisting students and staff with the 3-D printer and maintaining the equipment. Cameron hopes to expand his 3-D business upon graduating from high school.

## Tech Week 2021 - Greater Cleveland Partnership

During the week of September 27 - October 1, 2021, Programming & Software Development students participated in The Discover IT Information Scramble, a program for Northeast Ohio high school students. The goals of the program are for students to learn about: the broad field of information technology and its applications, the advantages and requirements of a career in IT, and how to position themselves for success in this career path starting in high school. Both Level I and Level II students competed in teams against 40 other high schools by researching, exploring and answering questions pertaining to various IT topics as well as employment, outlook and IT training opportunities.

## Internship opportunities

Fortisure IT, located in Green, Ohio, has partnered with Programming & Software Development by providing training, collaboration and internship opportunities for Level II students. Qualified students independently participate in the Developer Essentials online training program while attending PSD classes and occasionally meet with Fortisure trainers in person or virtually. Upon successful completion of the online training program, completers have the opportunity to participate in a part-time paid internship program as a Junior Developer during their senior year, that could lead to being hired full-time by Fortisure IT.

## Capture the Flag Challenge



**Capture the Flag winner**  
**Erick Le** (Stow-Munroe Falls)

Congratulations to **Erick Le** (Stow-Munroe Falls), Programming & Software Development Level II student for winning 2nd place in the 2nd Annual GCP/RITE (Greater Cleveland Partnership / Regional Information Technology Engagement) High School Capture the Flag Challenge! This event was powered by Baldwin Wallace, the University of Akron, and the Northeast Ohio CyberConsortium.

Capture the Flag is a Jeopardy-style competition with various questions and tasks in categories ranging from Encryption/Decryption, OSINT, Password Cracking, Programming, Networking, Operating Systems, and Steganography.

This October, students competed individually or in teams earning points of varying values based on the complexity of the task/problem within a limited timeframe.

