

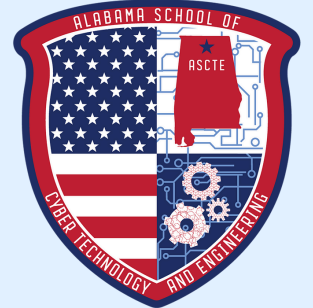


# Mentoring High School Education Through Local Collaboration

An ADAMC Partner Success Story

## What is ASCTE?

The Alabama School of Cyber Technology and Engineering (ASCTE) is the nation's only high school focused on the integration of cyber technology and engineering into all academic disciplines. ASCTE is a public, residential magnet high school serving students throughout the state of Alabama.



## The Problem

ASCTE offers a fabrication shop as a resource for students interested in metalworking and woodworking. Bryan Martin, the fabrication shop manager and engineering teacher at ASCTE, required additional support for various classes held in the shop during peak hours. These included classes such as Intro to Metalworking, CAD & Shop Enrichment, and the After School Shop Club. The high student interest and large classes made it difficult to have more personal engagement with the students to learn how the equipment operates and mentor them on various manufacturing applications.

## Q: How do you think the fabrication shop has improved overall in the time you've been here?

“ More people in the shop to help with projects and the shop is able to be open throughout the entire school day. It's really helpful being able to stop in at any time now to work on projects, especially with the extra help. ”  
- ASCTE Student

## Q: How do you think the skills and knowledge you've gained in the fabrication shop might benefit you in the future?

“ Working with different subtractive manufacturing techniques and getting to learn how those machines operate. My favorite was the CNC but it might become the milling machine once it's installed. ”  
- ASCTE Student

## The Solution

Since September 2023, UAH students working as part-time staff have been assisting ASCTE students in using the equipment and ensuring the safety of working groups. This initiative has also provided UAH students with valuable hands-on experience, enhancing their skills and understanding of metalworking and woodworking equipment. Additionally, it has given them the opportunity to mentor and guide ASCTE students on their projects in the fabrication shop. This collaboration has resulted in a more streamlined work environment for ASCTE students, helping to avoid equipment bottlenecks and accommodating larger class sizes in the fabrication shop. Consequently, the efficiency of the shop has increased, allowing ASCTE students to maximize their learning and project time.



Learn More at [www.ADAMC.Tech](http://www.ADAMC.Tech)

**By providing hands-on experiences and exposure to advanced manufacturing technology, this collaboration upskills students and inspires them to pursue rewarding careers in the industry.**