**Phillips Education Community Newsletter**

**February 2024**

## WHAT'S INSIDE


- Lindsay's Latest
- Educators of the Month
- School Spotlights
- Grant Opportunity
- Upcoming Events
- Tech Updates


## Lindsay's Latest

Dear Educators,

It's already shaping up to be a great year in 2024, and I'm excited to see what new accomplishments and opportunities our students and programs, SkillsUSA competitions, and the Phillips Machinist Challenge will bring. Speaking of PTEC competitions, I'm sure many of you already know, but Haas Automation, Inc. has made a generous donation to PTEC! Check out the Haas Automation Facebook page for more details.

Phillips is kicking accelerator for our students and PTEC programs. We'll be at SkillsUSA Texas with our team and can't wait to see all the progress attending students have made during their time in our programs. SkillsUSA Texas is also exciting because we'll be announcing the Phillips Machinist Challenge winners, and we're super excited to see how your students can be part of them!

Hope to see you all in Houston at the conclusion of PTEC conference soon!

Thanks for all you do,

Lindsay

## Educators of the Month

**Ron Sizer**

Secondary Educator of the Month

My name is Ronald Sizer and I am the CNC Machining Instructor at Benjamin Franklin High School. The program is the only program of its kind in the School District of Philadelphia. I graduated from Temple University in 1988 with a degree in Education. I have a young child, his league has his interesting ways through my soul of loving and building. As a young man, I didn't understand how living there and working with my hands would make me so important to me, and today he is a father and a husband.

After high school, machining and manufacturing was the only pathway I considered. I worked in various metal and wood shops as a Machine Operator and through on-the-job training, I realized I had an opportunity at the metal industry. I started as a CNC Machine Operator and worked my way up to Machinist, Programmer, and Supervisor. In my training to further my CNC knowledge, I was sent to the Haas Factory Outlet in Somerset, PA and to the Bridgeport Center of Intense Manufacturing in Bridgeport, CT. I have also received certificates in various industries certifications and began working on Haas contracts for Warminster.

Years later, after the company was sold, I began my electric again where I was introduced to 3D and 5D axis attachments, and a new fascination. Eventually, I started working for Temple University Hospital as a Machinist and Supervisor. I didn't complete Johnson Manufacturing & Engineering, was in need of machines as I decided to move over where I would be making medical devices.

In 2017, my youngest daughter and I attended a high school fair. She was interested in pursuing her 1st hand thought in the Career and Technical Education (CTE) program at Benjamin Franklin High School. I was impressed with the program and what I saw, but I was not looking to teaching. Program. At 1, began to research the employment. Our next semester the same guidance's passion, opened it up, and showed me the CNC Machining program. I was amazed at the new technology and the equipment. After our conversation, he told me to speak to the CNC Machining program and where he my career information. I thought him that was crazy, and I told him I was not looking to be a teacher. He told me to think about it and to call him after thinking and speaking with my family about it. I realized if I had to make a change, this is my chance to pass down the skills that I learned from my father and the skills I learned in my career. I called him back and told him I would like to interview for the open position. I knew I had a unique opportunity to make a difference in Philadelphia's communities and help diversify the manufacturing field. I accepted the offer in 2017 and haven't looked back!

**Eddie Humphries**

Postsecondary Educator of the Month

My name is Jadell Humphries and I am the Program Manager for Machining & CNC Technologies at Central Carolina Technical College. I've been in this role for 3 years, however this is a relatively new area of college at this campus.

I began my journey as a Machinist when I decided at the beginning of my sophomore year of high school that I wanted to pursue a career in the trades. I was a Machinist. Then, my wife suggested to machining and teaching during a summer training and decided to go back to school. I graduated with my associate's degree in Machining Technology and have machining ever since. It's been a very rewarding career and I've had the opportunity to work in many different industries.

I enrolled at CCTC as a student in Fall of 1996. I went through the program and learned most of all the operations used in milling, turning and grinding. I also learned about programming the old way. In a nutshell I have been in and out of industry and education.

Upon graduating in 2000, I was employed by a machine shop as an turning center operator. This was my first experience in manufacturing. I was there about two years and then moved on to a different machine shop where I was employed as a machinist and then a programmer for the next 10 or 12 years. I left that job to work at a company that was a start-up company. I was employed there for about 2 years and then moved on to another machine shop where I was employed as a machinist and programmer for about 4 or 5 years before I left to go back to the CNC Turning Department.

I accrued 20 years in that machine shop, learning and absorbing all that I could. In 2021, I was approached by a former instructor of mine about the position I currently hold. Machining at night as an adjunct instructor. The opportunity was great and I decided to take it. I've been teaching ever since. I've had the opportunity to work with some great students and some great instructors. I've had the opportunity to work with some great industry leaders that have provided opportunities for my students. I've had the opportunity to work with some great people during the past generation of machinists in the central Mississippi.

## School Spotlights

**Benjamin Franklin High School**

Secondary School of the Month

CNC Machining at Benjamin Franklin High School prepares students to apply technical knowledge and machining skills in shaping material to produce parts using computer numerical control (CNC) machine tools and processes. Students learn to read and interpret engineering drawings, select appropriate tools and materials, and operate and monitor CNC machines to produce precision components. Safety practices and quality control are also emphasized. Instructors also incorporate the use of measuring instruments such as digital calipers and micrometers to ensure that parts meet specified tolerances. Students may also learn about computer-aided design (CAD) software for creating and modifying designs before translating them into machine code. Overall, CNC machining at Benjamin Franklin High School equips students with valuable skills for careers in the manufacturing industry, fostering a blend of theoretical knowledge and practical application.

Instruction is split between machining theory and machining applications. In this course, students learn how to safely operate a variety of machine tools, including lathes, mills, saws, and drill presses. They will also learn about metals, wood, and some plastics, and how to select the appropriate material for a given project. Students will also learn about blueprints and how to interpret 3D measurements and tolerances. Students will learn about the history of Manufacturing Fundamentals, machine operations and safety practices, as well as measurement and layout techniques. Students will also learn how to operate machines independently and to plan teams to produce projects involving real world parts. In this course the students gains experience with equipment in a machining environment.

Students will have the opportunity to participate in field trips to local manufacturers and machine shops to see how machining is used in real-world applications.

Students will have the opportunity to participate in the U.S. SkillsUSA. SkillsUSA Philadelphia is a program offering strong school-to-career partnerships that help students and employers succeed. Currently associated with 20 strong schools, the program is the largest SkillsUSA Philadelphia is the largest offering strong instruction.

Benjamin Franklin High School's CTE program consists of Machining, CADD, Building Construction Technology, Electrical, Plumbing, Culinary Arts, and Cosmetology. Each of these programs is a three-year program that prepares students for employment. Students who complete a CTE program receive a Pennsylvania Skills Certificate and are eligible to take an industry exam to earn a state license or certification.

CCTC's mission is to improve lives through excellence in teaching, learning, and economic enhancement through workforce development.

The Machining & CNC Technologies program offers two certificates: Basic Machining & CNC Fundamentals Certificate is designed to train entry-level machinists in basic machining processes and CNC operations. Students learn how to operate manual lathes, mills, and drill presses as well as how to program and operate CNC machines. Machining & CNC Programming Certificate(PCP) will further the students level of knowledge in CNC programming and machining. The PCP is designed to train students in the skills required for operating digital machine controls. It also familiarizes students with the principles of machining and the use of precision measuring instruments. Students will receive both theory and hands-on training with quality instruction and the necessary tools for productive employment in their field of study.

**Central Carolina Technical College**

Postsecondary School of the Month

Central Carolina Technical College is a multidisciplinary public institution of higher education primarily serving the region of Lee County, South Carolina, United States. It was founded in 1963 as Sumter Area Technical College and is accredited by the Southern Association of Colleges and Schools Commission on Colleges to award associate degrees, diplomas, and certificates.

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## Grant Opportunity

Exelon Corporate Contributions Program

**Geographic area:** Company contributes in DE, IL, MD, NJ, PA, and DC

**Description:** Exelon's Corporate Contributions Program focuses on philanthropic investments in the areas of education, environment, diversity, and community. Grants include Statewide, Regional, Metro Area, Workplace, and Matching Gift. Education Grants support programs that improve the quality of education for students in grades K-12 and prepare students for success in college and career preparation, science and technology education, and workforce development. Environment Grants support programs that promote environmental awareness, and energy efficiency and sustainability. Diversity Grants support programs that promote diversity and inclusion in the workplace and in the community. Community Grants support programs that enhance the vitality of the communities we serve.

There is no application deadline. Visit

## Upcoming Events

SkillsUSA

Registration is open for the 2024 SkillsUSA Texas Conference! To submit your state competitor registration, please visit the SkillsUSA Texas Conference and Awards Information page.

PHILLIPS MACHINIST CHALLENGE

The Phillips Machinist Contest & Awards Ceremony will be held in Killeen this year! Registration for Participation is now open.

TEC

Registration is now open for the Regional PTEC Conference at Guntersville College of Technology from March 25-26th! Register

## Phillips Technology Updates

**Educators' Guide to Order Tooling:**

Did you know new products are added weekly to the Haas Tooling Website and that Haas Automation, Inc. has a dedicated tooling website to help? Our guide is here to help you navigate the site and find the tools you need for your machine.

1. Go to www.haastec.com and create an account if you have not already done so.
2. Make sure you register with your school email ending in ".edu" to get the 25% off Educator discount.
3. Once you are signed in, click on the Haas Tooling section.
4. Start Shopping! Add the items you want to your cart and when you are done, go to your cart and click "check out." At the recipient email box, send to purchasing@yourschool.edu(Phillips@haastec.com)
5. Once received, you will be contacted to make sure the discounting and parts are correct and that your order will be placed.

Email Haas MPC Phillips! you now have additional discounts thanks to our Haas Education Rewards. **Email education.rewards@haascnc.com to apply!** Be sure to **mention Phillips Education already has an account** with Haas Phillips and we will be happy to help!

for more information.

## Haas Spotlight:

**Haas HC10 Cobot**



The Haas Cobot is now available for $35,000! We have purchase one of the following machines to be able to integrate with the HC10 cobot: VF-2, VF-2SS, & VF-4.

**Purchase of a Cobot includes:**

- One-year warranty
- Cobot Arm
- 3-meter cable
- Cobot Control Cabinet

## Haas DC-1 Drill Center



Available for purchase now is the DC-1 drill tap. The DC-1 is a professional drill tapping machine with an 8,000 rpm spindle and high-speed rigid tapping for extra precision. To learn more and to view pricing please contact Haas!



Want **Ready-To-Go proposals** in our in-stock CNC packages for Education?

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