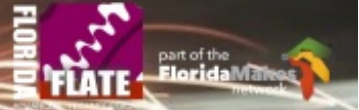


# FLATE FOCUS

June 2024



## Spotlight on our 2024 FLATE Award Winners

This month we will spotlight our two Educator-of-the-Year award winners, and in July we will spotlight our manufacturing partner award and innovative student event awardees.



## Congratulations to David Yokum 2024 FLATE Distinguished Manufacturing Secondary Educator-of-the-Year Award Winner



David Yokum has been a teacher for Anclote High School in Holiday, Florida and at AmSkills for the past 5 years. He created the Advanced Manufacturing program for Anclote High School, starting in 2020 with 35 students and growing to 155 students in 2023-2024. Before starting the program at Anclote High School, David worked for years in the manufacturing industry. He started his career as a mechanic at a flight school and then worked for companies building military and commercial simulators for the U.S. military. He currently works for Clearwater Motor Coach building

mobile stem training, medical, and luxury RV solutions and he also manufactures custom buses nationwide.

Since David has continued to work in the industry while teaching, he was able to provide his students with additional opportunities. He placed 15 students in on-the-job training over the last 4 years and also hired two full-time students that still work at the facility learning the trade and moving up in the industry.

Driven to make a difference, David has also provided mobile manufacturing boot camps in Tampa Bay. He built a space bus to promote stem education and share cutting edge technology in advanced manufacturing. The bus has a complete multi-crew training simulation system with laser cutters and 3D printers. David believes that manufacturing is important because it's how we build a great future. He states that it's important to 'Find that spark inside others that needs to be seen. Through education you're not guaranteed experience, but through experience you're guaranteed an education.'

[Read Full Article](#)

## Gil Burlew wins 2024 FLATE Distinguished Manufacturing Post-Secondary Educator-of-the-Year Award Winner



Gilbert (Gil) Burlew, Advanced Manufacturing and Production Technology instructor at Manatee Technical College (MTC) in Bradenton, Florida, is celebrating his 45th year of a rewarding teaching career – 30 years in Florida schools. He started his Florida teaching career in Brevard County at the Cocoa High School Aerospace Academy in 1994 before moving to Palm Bay High School in 2001. In 2005, Gil moved to Manatee County to continue inspiring his Engineering Technology students, and winning TSA state and national championships year after year. During his 11 years at Braden River High School, he became Department Chair and Engineering Academy Lead, served as Chair of the FL-TSA Board of Directors, and was president and executive director of the Florida Technology Engineering & Educators Association.

In 2016, Gil started the Advanced Manufacturing program at Manatee Technical College (MTC) from the ground up with a Florida Workforce Education Job Growth Grant—the first in the state to be awarded. He has continued to grow the program in size, scope, and quality. According to Doug Wagner, Director, MTC: “It’s been exciting to watch Mr. Burlew take students into this program, train them, educate them, and through his vast network of business and industry connections, help them become employed in some of the very best high-wage, high-skill manufacturing positions I have ever seen.”

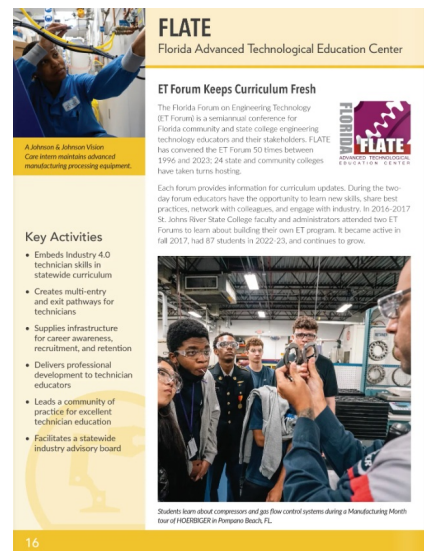
Gil believes manufacturing education is important because “Every day we open a giant window of opportunity for students to look out into their futures and help them to see the careers that could possibly be a game changer for them and in many cases a life-changing experience for them and their families.”

[Read Full Article](#)

## Look inside the NEW National Science Foundation (NSF) ATE IMPACTS Book for 2024-2025!

The NSF ATE community publishes an IMPACT book every two years to highlight the activities and impacts of the projects and centers funded by the program. It’s a big effort led by the team at ATE Central ([www.atecentral.net](http://www.atecentral.net)) to showcase the important work done in 2-year degree-granting institutions: preparing highly skilled and educated technicians for the continuously changing advanced technologies workforce. The 2024-2025 book highlights 30 Years of ATE innovations and impacts in technical education programs implemented by the grantees of this program.

**FLATE, part of the FloridaMakes Network, is proud to be included as a “sustained” center** even though it is no longer funded by NSF ATE as a center. FLATE is supported by FloridaMakes, project grants from the Florida Department of Education (FDOE), and project grants from NSF. FLATE’s 20+ years of impact in Florida can be found on pages 16-17 and highlights the importance of the ET Forum and industry partnerships.



[Read the Full Article](#)

## Entrepreneurship Education & Training Supporting Manufacturing Education in Florida

In support of Florida’s Perkins V State Plan to create a robust entrepreneurial ecosystem through career and technical education (CTE), FLATE has compiled and updated a list of resources on entrepreneurship curriculum education and mentorship.

Entrepreneurship education and training (EET) refers to academic education and formal training interventions or activities that share the broad objective of providing individuals with the knowledge and skills necessary to start, operate, or scale an enterprise.

For purposes of Perkins V, FLATE has compiled a list of resources with a focus on cultivating within CTE students the following skills:



- Entrepreneurial mindsets - the socio-emotional skills and overall awareness of “what it takes” to become a successful entrepreneur (e.g., self-confidence, leadership, creativity, risk propensity, motivation, critical thinking, high degrees of empathy, resilience, and self-efficacy)
- Entrepreneurial capabilities - the capacity for successful business management and venturing (e.g., knowledge of marketing, accounting, financial modeling, and the sources of capital, and evidencing the ability to de-risk an idea, successfully pivot, and value-create)

## Entrepreneurship Education Resources

### Amazing Kids Day Pensacola State College



Kayla Martin, FLATE Regional Education Ambassador, participated in the “Amazing Kids Day” event on June 1st, 2024 at WSRE-PBS out of Pensacola State College. The sensory-free event was held for children with special needs to explore fun and educational activities, and to show them and their families the resources available from WSRE-PBS and other community partners. The "DoBot" was the star of the event!

WSRE-PBS event  
partners

### Gulf Coast MakerCon AMRoC Fab Lab



Teresa Potter, FLATE Community Engagement Manager, and Lordana Guillaume, FLATE Regional Ambassador for West Florida hosted a FLATE table at the Gulf Coast MakerCon, Tampa Bay’s independent, oldest maker festival, on June 8, 2024 coordinated by AMRoC.

The event included robotics and drone competitions. Other exhibitors included the Tampa Inventors Club and Tampa Hackerspace. Thank you to our partner, the Bay Area Manufacturers Association for helping us share the message about manufacturing careers.

## 2024 FLATE Summer Teacher Insitute



Shirley Dobbins hosted the 2024 FLATE Summer Teacher Institute at Hillsborough Community College on June 10-14. The hands-on training in emerging technologies for Secondary and Post-Secondary Educators teaching engineering and related courses was attended by teachers across Florida. Subjects presented at the FLATE Summer Teacher Institute included: CAD, 3D printing, Skills Boss, Robotics, and AI in the classroom.

The participants also enjoyed tours of USF, Tampa International Airport and Chromalloy. Thank you to all the presenters, including Dr. Nancy Diaz Elsayed, Valerie Zapata, Deshjuana Bagley, Don McCleary, and Neil O’Malley. Special thanks to our educational partners Mark Gaudio with DC Jaeger, and Nathan Hicks and Steve Cercone with Bluegrass Educational Technologies for representing and sharing their latest equipment. For upcoming events, check the [FLATE.org](https://FLATE.org) website and newsletter.

## College Updates

### Polk State College Machining Student Highlighted in FDOE CTAE April Newsletter

Aliza Khan, a student in the CNC machining program and Engineering Technology AS program at Polk State, has earned the ET support Specialist CCC, and certifications from MSSC and Solidworks.



Teen is turning heads in machining at Polk State Corporate College | p4

Adult Education Highlight  
 Learning English is so important  
 p7

Program Highlight  
 Broward County Aviation Day  
 p8

Partnership Highlight  
 Cope Florida hosts Stavros  
 Color Competition for high schoolers  
 p10



According to the article, after Aliza earns two CNC certifications and her ETAS from Polk State College, she plans to enter the workforce before continuing on with her education.

Congratulations and all the best to Aliza in her future endeavors!

[Read the FDOE CTAE Newsletter](#)

## Upcoming Events

### TSA and Skills USA National Competitions Become a Judge or Volunteer today!



2024 National TSA Competition  
 June 26-30, 2024  
 Rosen Shingle Creek, Orlando, FL

Students are challenged to use and improve their STEM skills in team and individual events. Expert judging by technology and engineering educators and industry representatives inspires the best from participants.

[Become a Volunteer Judge today!](#)

[More information](#)



Skills USA National Conference  
 June 23-27 2024  
 Georgia World Congress Center  
 Atlanta, GA

The National competitions are held in Atlanta, GA every year, bringing together over 6000 state champions competing for Gold, Silver and Bronze, and is held in conjunction with a large technical education tradeshow - SkillsUSA TECHSPO.

[Become a Partner: Serve as a guest speaker or judge](#)

[More information](#)

### FLATE Educator Workshop - Edge Computing August 8-9 at Hillsborough Community College

**AUGUST 8-9 2024**

**FLATE EDUCATOR WORKSHOP**

**AUGUST 8: 9:30 AM - 4:00 PM & AUGUST 9: 8:30 AM - 3:00 PM**

**Edge Computing**  
 A Feasible and Integrated Approach to Collecting System Data

This hands-on workshop is for technical educators who want to learn more about equipment data collection and management as a simulation of production processes. Attendees will use a Raspberry Pi set up to simulate data collection and manipulation with industrial sensors in an industrial setting.

**HILLSBOROUGH COMMUNITY COLLEGE**  
 BRANDON CAMPUS  
 10451 NANCY WATKINS DR., TAMPA, FL  
 STUDENT SERVICES, BSSB 215

The workshop will cover:

- Introduction to Environmental Monitoring
- Sensors and Measurement Techniques
- Hardware Integration
- Software Setup and Programming Basics
- Data Collection and Management
- Data Analytics and Visualization
- Advanced Data Analysis Techniques
- IoT and Cloud Integration
- Artificial Intelligence integration

Lunch will be provided. Lodging will be covered for Florida educators who live more than 50 miles away. A \$200 stipend will be provided for those who complete the workshop. An additional \$200 will be given for those who implement the workshop activities in a fall 2024 semester. Requirements for this stipend will be provided during the workshop.

[Register Now](#)

QUESTIONS? CONTACT: MARILYN.BARGER@FLATE.ORG

This hands-on workshop is for technical educators who want to learn more about equipment data collection and management as a simulation of production processes. Attendees will use a Raspberry Pi set up to simulate data collection and manipulation with industrial sensors in an industrial setting.

The workshop will cover:

- Introduction to Environmental Monitoring
- Sensors and Measurement Techniques
- Hardware Integration
- Software Setup and Programming Basics
- Data Collection and Management
- Data Analytics and Visualization
- Advanced Data Analysis Techniques
- IoT and Cloud Integration
- Artificial Intelligence integration

Lodging will be covered for Florida educators who live more than 50 miles away. A \$200 stipend

will be provided for those who complete the workshop. An additional \$200 will be given for those who implement the workshop activities in a fall 2024 semester. Requirements for this stipend will be provided during the workshop.

[Register for a Spot on the Waitlist](#)

## 58th Annual FACTE Conference & Trade Show



The Florida Association of Career & Technical Education is dedicated to representing the interests of career and technical educators.

[Click here for Conference Agenda.](#)  
**FLATE Best Practice Awards Panel:**  
**Tuesday, July 16 2:30PM - 3:15PM**

## 17th Annual CNC Haas Technical Educators Conference July 22-25, 2024 - Minneapolis, MN



Haas Technical Education Conferences throughout North America and Europe are a great way to network with fellow educators, talk with HTEC partners, and hear from industry leaders about what's going on in the world of advanced manufacturing education education.

[More Info & Registration](#)

## 2024 HI-TEC Conference July 29-Aug 1, 2024 - Kansas City



HI-TEC is a national conference on advanced technological education where secondary and postsecondary educators, counselors, industry professionals, trade organizations, and technicians can update their knowledge and skills. Charged with *preparing America's skilled technical workforce*, the event focuses on the preparation needed by the existing and future workforce for companies in the high-tech sectors that drive our nation's economy.

[Register Now!](#)

## 2024 ACTE Region II Conference September 23-27, 2024 Florida Hotel, Orlando, FL



ASSOCIATION FOR  
CAREER & TECHNICAL  
EDUCATION®

The Florida Association of Career & Technical Education (FACTE) is honored to host the 2024 ACTE Region II Conference! ACTE Region II is comprised of 8 member states and 3 territories: Alabama, Florida, Georgia, Kentucky, North Carolina, South Carolina, Tennessee, Virginia, the Commonwealth of the Bahamas and the territories of Puerto Rico and the U.S. Virgin Islands.

[Registration Open July 1, 2024](#)

## Opportunities for Educators

### National IT Innovation Center - 2024 Summer Working Connections Professional Development Workshop

[Click on links below to register for in-person](#)

or virtual sessions:



### **In-person week at Collin College in Frisco, Texas – July 15-19**

#### **REGISTER FOR IN PERSON**

1. [Advanced Data Analytics](#)
2. [AWS Academy Cloud Architecting](#)
3. [Cyber Buffet](#)
4. [Generative AI Tools in the Classroom](#)
5. [Securing the Foundation: A Hands-On Cybersecurity Workshop for Critical Infrastructure](#)
6. [Teaching Mobile App Development](#)

### **Online week – July 22-26**

#### **REGISTER FOR ONLINE**

1. [A.I. Foundations](#)
2. [Fundamentals of the Cloud](#)
3. [Introduction to Data Analytics and Visualization with PowerBI, Tableau and KNIME](#)
4. [Intro to Python](#)
5. [Machine Learning Security](#)

## **FREE High School Science Educators Workshop at the AVS 70th International Symposium in Tampa, FL November 4-5, 2024**

Upon completion of the workshop, teachers receive at no cost:

- 1.5 Nationally certified CEU's or 150 sixty-minute clock hours from the University of Dayton
- A vacuum system for their school identical to ones used in the workshop (valued at \$1200)
- Travel Support



**Science and Technology  
of Materials, Interfaces, and Processing**

The workshop starts with pump operation basics and simple demonstrations, current industry applications, but evolves to the interplay of experimental data, theory, and models. Teachers get hands on experience with these ideas using vacuum pumps and equipment that they will receive from the society. **[Click here for a report from a past attendee.](#)**

[Click for Workshop Information and to Apply for Sponsorship](#)

## **FLATE Resources**

### **FLATE Webinar Series - Watch on Demand**

- **Edge Computing: A Feasible & Integrated Approach to Collecting System Data (New - June 2024)**
- A Universal Programming Approach for any make of Programmable Logic Controllers (PLCs) - May 2024
- Best Practices for your CNC Course or Program - April 2024
- Overview of AI in Manufacturing - April 2024
- Overview of Teaching PLCs
- Leveraging an Open Lab to Provide Greater Access for Students in your Manufacturing Program
- Developing Local Articulations to Increase Enrollment in College Programs
- How to Create Work-based Learning Opportunities
- Recruiting Strategies Best Practices
- Robots for AI and Industry 4.0 Training and Demo
- Creating Videos using Classroom Projects and Student Success Stories
- How to Increase Student Diversity in ET Programs
- How to Develop ET Dual Enrollment or Early College Programs
- Cybersecurity for Manufacturing Series (4-part)
- Overview of Teaching PLCs - added Feb 2024



[View Webinars on Demand](#)



**FLATE's**wiki  
...full of great FREE RESOURCES for you!

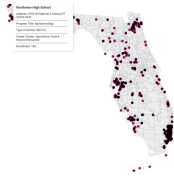


[flate.org](http://flate.org)

[FLATE wiki](http://FLATE wiki)

[madeinflorida.org](http://madeinflorida.org)

Academic Programs at Secondary Education Curriculum Institutions that Support Manufacturers



**FLATE's Manufacturing Matters Dashboard**  
A tool highlighting manufacturing education, careers, industry, and their impact on Florida's economy.

[Click here for FLATE's Manufacturing Matters FL Dashboard](#)

### Florida Department of Education Resources

**GET THERE**  
Florida's Workforce Education Initiative

With Career, Technical and Adult Education (CTAE), you can train for a better career quickly and affordably.

**APPRENTICE FLORIDA**

Apprenticeship programs are a proven training method benefiting job seekers and businesses.

**Check Out Our Previous Newsletters:**  
[May 2024 Focus](#) | [Apr 2024 Focus](#) | [Mar 2024 Focus](#) | [Newsletter Archive](#)

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