



FLATE News



2024 FLATE Award Nominations Open until February 9

The 17th annual FLATE awards will recognize educators and industry professionals who have made outstanding contributions to manufacturing or engineering technology outreach or educational programs in our public or private educational institutions. FLATE Awardees include individuals in any manufacturing area including economic development, industry, education and administration.

Do you know an educator or manufacturing professional who goes above and beyond?
Make your nomination today for:

- FLATE Distinguished Manufacturing Secondary Educator-of-the-Year Award
- FLATE Distinguished Manufacturing Post-Secondary Educator-of-the-Year Award
- FLATE Distinguished Manufacturing Partner Service Award
- FLATE Most Innovative Manufacturing Student Event Award

Timeline

- Nominations close: February 9, 2024
- Nominee application and student event application deadline: March 29, 2024
- Award winners will be notified by April 26, 2024
- Educator & Partner Awards presented July 15-17, 2024 at the FAcTE Annual

Conference in Ponte Verde Beach, FL

- The FLATE Most Innovative Manufacturing Student Event Award will be presented at the 2024 FloridaMakes Make More Summit.

If you are interested in sponsoring the 2024 FLATE Awards, [click here for the Sponsorship Packet](#).

Click to make a nomination today!

Chipola College Technical Adjunct Instructors Needed

Chipola College in Marianna, FL is searching for instructors with a Masters degree to teach core tech courses including:

- Motors and Controls
- PLCs
- Process Control and Automation
- Intro to Electronics w/Lab
- Hydraulics and Pneumatics



Please contact [Darwin Gilmore](#), Dean of Workforce & Development at Chipola College for more information.

Manufacturing Month Event Ideas

Knight's Armament Assistant Principal Site Tour November 9, 2023



Knight's Armament in Titusville, FL hosted Brevard Public Schools Secondary Assistant Principals on November 9, 2023. The group toured the shop floor to see the process that goes into making parts. Current and past apprentices spoke about their experiences. The event provided information on careers available for their students, the importance of industry certifications and how to implement programs at their respective schools.

Gibbs Collegiate H.S. First Robotics Tech Challenge Champions



Gibbs' Robotics Team placed 1st in as a rookie team, competing against 32 teams. Sid Martin, Engineering Technology Program Manager at St. Petersburg College, was a team mentor. "This was all their effort. They did a great job working through the challenges of the day."

Upcoming Events



Save the Date!
April 4-5, 2024



**Spring 2024
ET Forum**

Mechatronics 101 Workshop St Petersburg College, Clearwater Campus March 1, 2024

A workshop for Secondary and Post Secondary Educators new to Mechatronics and Smart Manufacturing

This hands-on workshop will introduce faculty, administrators, and counselors to an entry level Mechatronics course (Concepts of Electronics) taught to high school students at a distance in Minnesota and Nebraska. Attendees will learn best practices for delivering technical coursework online, assemble a trainer, and perform lab exercises designed for high school or college students. All participants will take their finished trainer (valued over \$300).

Mechatronics 101 Workshop

A workshop for Secondary and Post Secondary Educators new to Mechatronics and Smart Manufacturing

March 1, 2024 – 9:30 AM – 4:00 PM



St. Petersburg College

Clearwater Campus

Blg C8 Room 170

2465 Drew Street

Clearwater, FL

This hands-on workshop will introduce faculty, administrators, and counselors to an entry level Mechatronics course (Concepts of Electronics) taught to high school students at a distance in Minnesota and Nebraska. It is the first of a series being developed for delivery to high school students, designed to learn best practices for delivering technical coursework online, assemble a trainer, and perform lab exercises designed for high school or college students.

All participants will take their finished trainer (valued over \$300) home and be asked to create a lab with this trainer to share with other workshop attendees and the Advanced Technological Education (ATE) and Independent Mechatronics Education Consortium (IMEC2) community. A party for and related curriculum will also be made available.

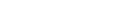
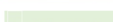
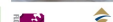
Trainers from high schools and state/community colleges are encouraged to attend.

The workshop is FREE, lunch will be provided, and attendees will take their trainer home to use in their own classrooms.

WORKSHOP TOPICS

Overview of the project
Dual enrollment strategies
Share best practices working with high schools
Building trainers from components
Review with curriculum
Labs and videos
Complete the trainer

Questions? Contact: Marissa Berger Marissa.Berger@state.edu



Space is limited. Register Now!



2024 FCPN Symposium January 10-12, 2024 Jensen Beach, FL

Join other Career Pathways and CTE Florida leaders and practitioners for workshops, professional dialogues, and a student showcase. Learn from this year's selected Best Practice Award winners as they highlight all of the great innovation and achievements within their programs.

Symposium Registration open until Dec 15

FANUC Robotics Trainings at the College of Central Florida

The College of Central Florida Corporate College is the only FANUC Authorized Satellite Training (FAST) facility in Florida and will be presenting the following FANUC Robotics trainings

FANUC HandlingTool Operation & Programming January 22-25, 2024

This 32-hour course covers the tasks that an operator, technician, engineer, programmer or instructor would need in order to set up, record and/or troubleshoot programs.

Register by Jan 5, 2024

FANUC 2D iRVision Operation & Programming April 8-10, 2024

This 24-hour course covers basic tasks and procedures required for an operator, technician, engineer, programmer or instructor for iRVision applications.

Register by Feb 23, 2024

2024 FACTE Conference & Trade Show



The 58th Annual conference will be held at the Sawgrass Marriott, July 15-17, 2024. If you would like to present a workshop during the conference, please complete the form by February 15, 2024. All presentations will be live and in-person. Notification regarding your proposal will be sent by March 1.

FACTE Call for Presentations by Feb 15

2024 HI-TEC Conference Save the Date and Call for Proposals



There are three opportunities to present at the HI-TEC conference.

1. Preconference Workshops and Special Interest Groups (SIGs) will be held Monday and Tuesday, July 29-30. **(FAQ: Workshops and SIGs)** Proposals due Feb. 15
2. Main Conference Breakout Sessions will take place Wednesday and Thursday, July 31-August 1. Proposals due Feb. 29
3. Poster Sessions will be featured in the exhibit hall Wednesday, July 31, from 3:00 to 5:30. Proposals due Feb. 29

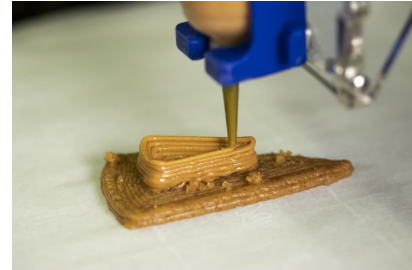
Questions about your preconference proposal: Contact [Ann Beheler](#) or [Doug Laven](#).
Questions about your session or poster proposal: Contact [Greg Kepner](#) or [Peter Kazarinoff](#). Questions about the forms: Contact [Sheila Wilson](#).

HI-TEC Call for Proposals

Other News & Resources

Could 3D-printed food provide a healthy alternative to commercially available fast food and high-calorie snacks?

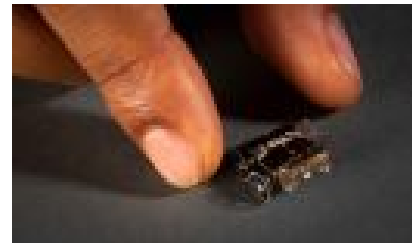
Food printing technology has existed since 2005, introduced by mechanical engineers at Columbia University in professor Hod Lipson's Creative Machines Lab. A research team in Lipson's lab, supported in part by the U.S. National Science Foundation's [AI Institute for Dynamical Systems](#), now attempting to make more appetizing foods, experimented with 3D printing different types of vegan cheesecake. The team tested various recipe designs and found that the most successful recipe design used a graham cracker crust as the foundation for each layer of the cake. Multi-ingredient designs evolved into tiered structures that followed principles similar to those used in building construction; more structural elements were needed to support softer components for a successful multi-ingredient layered print.



[Read Full Article](#)

MilliMobile: A tiny, self-driving robot powered only by light and radio waves

Moving robots demands a lot of energy. Batteries have limited life and raise environmental concerns. Explored alternatives have drawbacks: Insects roam; chargers limit range; lasers can burn people's eyes. Researchers at the **University of Washington** have now created MilliMobile, a tiny, self-driving robot powered only by surrounding light or radio waves. Equipped with a solar panel-like energy harvester and four wheels, it is about the size of a penny, weighs as much as a raisin and can move about 30 feet in an hour, even on a cloudy day. The robot can drive on surfaces such as concrete or packed soil and carry three times its own weight in equipment such as cameras or sensors. It uses a light sensor to move automatically toward light sources, so it can run indefinitely on harvested power.



[Read Full Article](#)

FLATE 2022-23 Webinar Series - Watch on Demand

- 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)



[View Webinars on Demand](#)

FLATE Resources



flate.org

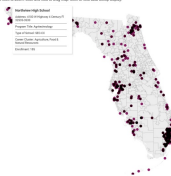


[FLATE wiki](#)



madeinflorida.org

Academic Programs at Secondary Education Curriculum Institutions that Support Manufacturing



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



Florida's Workforce Education Initiative

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



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

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