



STATE ENGINEERING TECHNOLOGY INDUSTRY ADVISORY BOARD (SETIAB)

**Board of Directors MEETING Minutes
State College of Florida, Bradenton, FL
April 4, 2024, 6:00 P.M.**

Voting Members

Name	Company	Present	Not Present
Cornelius Jackson	Polk County Public Schools	X	
Dean Bartles	Manu Tech Deployment Grp (MTDG)	X	
Michael Emigh	Target	X	
Abraham Alangadan	Advanced Manufacturing Tech	X	
Maria Alfano Proxy	Florida Makes		X
Vote to Kevin Carr			
Kevin Carr	FloridaMakes	X	
Robert Blevins	Florida Dept of Education	X	
Walter Brown	Coca-Cola	Virtual	
Way Campos (New)	Naval Support Activity Panama City	X	
Kon Champavannarath	UFP Packaging	X	
Peter Cirak	Seal Dynamics	X	
Joe Corley (New)	Fidelity Manufacturing	X	
Michael Ennis	Michael C. Ennis Consulting		X
Jayne Fifer	Volusia Manufacturer's Assoc (VMA)		X
James Gillard	Vac-Con	Virtual	
Paul McAllister	AquaComfort Water Group	X	
Chris Nelson (New)	Machine Technology Manufacturing	X	
Josette B. Twait (New)	Polk County Public Schools	X	

Non-Voting Members

Marilyn Barger	FLATE	X	
Ernie Friend	FLATE	X	
Mori Toosi	Polk State College	X	
Sam Ajlani	College of Central Florida	X	
Meer Almeer	Eastern Florida State College		X
Phil Centonze	POS-Impact	X	
Shirley Dobbins	Hillsborough Community College	X	
Ron Eaglin	Daytona State College	X	
Susan Frandsen	St. Johns River State College	X	
Shera Gill	Northwest Florida State College	X	
Patrick Land	Florida State College at Jax		X
Garrett Lee	South Florida State College		X
Sid Martin	St. Petersburg College	X	

Guests

Sam Aldrich	State College of Florida	X	
Sheryl Awtonomow	FLATE	X	
Richard Gilbert	FLATE	X	
Danielly Orozco-Cole	FLATE	X	
Teresa Potter	FLATE	X	
Ron Smith	Hillsborough Community College	X	

CALL TO ORDER AND OPENING REMARKS

Cornelius Jackson opened the meeting and conducted a roll call – established quorum.

1. BOARD OF DIRECTORS NEW MEMBER Additions

A motion was made by Cornelious Jackson and seconded by Michael Emigh to accept the membership of the new members of the State Engineering Technology Industry Advisory Board.

- Josette Burton Twait, Assistant Director of Career, Technical & Adult Education, Polk County Public Schools, Affiliation: K-12 CTE
- Joe Corley, Engineering Manager, Fidelity Manufacturing, Affiliated College: College of Central Florida
- Way Campos, Design Engineer, Naval Support Activity (NSA) Panama City | Affiliated College - Gulf Coast State College (GCSC)
- Chris Nelson - President, Machine Technology Manufacturing | Affiliated College: South Florida State College (SFSC).

The motion carried unanimously.

2. A motion was made by Dean Bartles and seconded by Michael Emigh to approve the minutes of the previous SETIAB meeting (Sept 27, 2023). The motion was carried unanimously.

3. FloridaMakes presentation- Kevin Car

Kevin Car, FloridaMakes CEO, introduced FloridaMakes to the board and commented on the importance of incorporating the 2-year Florida State College System (FSC) with Manufacturing-related careers as part of the FloridaMakes ecosystem. FloridaMakes is the official representative of the Manufacturing Extension Partnership (MEP) in Florida, a program of the National Institute of Standards and Technology, an agency of the United States Department of Commerce. FloridaMakes is focused on building the Manufacturing Ecosystem in the state of Florida.

4. New Member presentation-Chris Nelson

Chris Nelson, President, Machine Technology Manufacturing - Affiliated College: South Florida State College (SFSC), presented his experience and career exposure at Motorola, how he started his manufacturing career and explained his passion for manufacturing, automation, mechanics, and simulation. Chris shared his best practices and contributions to the manufacturing dynamic simulations world with the companies he worked with. In conclusion, Chris reminded the board of the urgent need for highly skilled workers (especially those with problem-solving skills and mechanical aptitude, CAD skills, AI Artificial Intelligence Processes and Software optimization). He emphasized the importance of supporting manufacturing in Florida and the United States. Some lengthy and productive conversations took place among the board members discussing methods/technology utilized by different industries.

Board members were asked if new member presentations were beneficial in all future meetings, and they unanimously agreed.

5. Special Election

Chairperson Cornelius Jackson announced the special election for a new Chairperson position, as he will be changing roles in his organization and will be stepping down.

- A motion was made by Michael Emigh and seconded by Kon Champavannarath nominating Dr. Dean Bartles to serve as Chairperson. The motion was carried unanimously.

- Because Dean Bartles was previously Vice-Chairperson, a motion was made by Dean Bartles and seconded by Kon Champavannarath nominating Michael Emigh to serve as the new Vice-Chairperson. The motion was carried unanimously.
- Because Michael Emigh was previously Secretary, a motion was made by Dr. Dean Bartles and seconded by Michael Emigh nominating Way Campos as Secretary. The motion was carried unanimously.

New Chairperson – Dr. Dean Bartles
 New Vice-Chairperson – Michael Emigh
 New Secretary – Way Campos

6. **Open Comments from all voting members**

Cornelius Jackson opened the floor to comments by board members. The board members discussed the challenges and issues that manufacturers are facing.

- The audience for the SETIAB includes Florida State Colleges that offer Engineering Technology programs, the Florida Department of Education (FDOE), and the FloridaMakes Network. The main goal of SETIAB is to provide recommendations regarding the current and future curriculum based on industry needs (more specifically those of local, regional, and state-wide manufacturers) and assist in ensuring the program(s) learning objectives and activities are productive and of high quality. Response from Mori Toosi to Paul McAllister’s question.
- James Gillard – HR manager at Vac-Con via online – commented that there is a huge demand for talent between the production floor worker and the mechanical engineer. St. Johns River State College (SJRSC) has been instrumental in providing the workers we need by providing the program that creates that talent pool. They teach the skills needed in their ET program that fill our most needed positions.
- Kon Champavannarath – brought up ITOT convergence – there needs to be some conversation or classes about networking and cybersecurity as it relates to technology in manufacturing. Maintenance Technicians are a challenge. Need OT people with IT skills.
- Abraham Alangadan suggested drafting a layout for the discussion session to be followed.

7. **NSF Grant Report**

Dr. Marilyn Barger reviewed the background data collection done in a previous NSF grant to FloridaMakes in 2020. The outcome of a Florida Industry survey and educational institutions were analyzed and compared to the current Department of Education Curriculum Framework. The skills gaps that emerged from the analysis were: 1) need for some acknowledgment of cybersecurity; 2) need for more skills working with data and understanding how to visualize and interpret it; and 3) need for more networking skills when working with integrated and connected machines. These are now being added in the new program under ASET which will be a new specialization “Advanced Automation”, and the draft frameworks will be reviewed by Dr. Mori Toosi. Additionally, with the grant, we have offered several workshops for educators including Mechatronics 101 for high school teachers, PLCs, Cybersecurity for Manufacturing and Robotics and Automation. The grant also has a focus on engaging industry with the ASET degree, which led to the formation of the SETIAB.

8. **Officers’ Report**

No reports were presented by the Chairperson, Vice-Chairperson and Secretary.

9. **FDOE Report**

Bob Blevins informed the board that the state approved \$35M for the Cap grant to expand semiconductor training into high schools and \$28M to four State Colleges for semiconductor training. For high schools, it will largely be exposing students to manufacturing/engineering concepts, developing pathways and primary knowledge (STEAM) needed to move forward into occupations

related to manufacturing/engineering semiconductors. The base knowledge is the same for most technicians and it is important to promote those concepts.

10. **New Specialization Curriculum** Mori Toosi introduced the new proposed “Advanced Automation” specialization under the Engineering Technology AS degree. The proposed specialization is based on the responses to the new draft curriculum standards. The board had a very productive but lengthy discussion about each standard and how it would function and fulfill the needs of different segments of manufacturing in Florida.

Board members approved the new “Advanced Automation” specialization: The motion was made by Dean Bartles and seconded by Pete Cirak to accept the standards as presented to add the new “Advanced Automation” specialization under the Engineering Technology AS degree program. The motion was carried unanimously.

11. **New Business: Open Floor Suggestions**

It was asked about the best and most efficient way that SETIAB would operate, perhaps forming committees for how to identify the future needs of manufacturers. Dean Bartles suggested that ad hoc committees could be developed as needed and approved by the board, virtual meetings could be held as needed, and two face-to-face meetings would continue to be held per year – held on the Thursday night of the bi-annual ET Forum so SETIAB members could participate and attend ET Forum as well.

Pete Cirak suggested having diagrams/flow charts to help explain the curriculum process to the board. Bob Blevins (FLDOE) said he could offer a flowchart to help.

12. **Next Meeting**

The next Board of Directors meeting will be at Palm Beach State College on September 27, 2024.

13. **Adjourn**

Motion to adjourn was made by Pete Cirak and seconded by Michael Emigh. Approved unanimously. The meeting recording is available on YouTube: <https://youtu.be/INPLcu5kUF4>.

DISCLAIMER

The above minutes should be used as a summary of the motions passed and issues discussed at the meeting. This document shall not be considered a verbatim copy of every word spoken at the meeting.