

## 2024 ACTE CareerTech VISION Presentations



### NOCTI/Nocti Business Solutions (NBS) Partner Sessions

Thursday, December 5, 2024

#### Strengthening the Industry 4.0 Workforce through Virtual Reality Training

- Time: 2:00-2:45 PM  
Location: Room 207B, Henry B. González Convention Center  
Speakers:
- Micheal Carbenia, Senior Executive Director of Workforce, zSpace
  - Anne Gielczyk, Executive Vice President, NOCTI and Nocti Business Solutions
  - Jason Simon, Director of External Education at OCTC's Workforce Solutions, and Director of AMTEC

##### Session Description:

Through an NSF Grant, AMTEC (Advanced Manufacturing Technical Education Collaborative) is developing a national industry 4.0 program for industrial maintenance/mechatronics technicians. This initiative is pivotal in shaping the future of our workforce, ensuring they are equipped with cutting-edge skills and knowledge in the era of Industry 4.0. AMTEC has enhanced the program by teaming up with zSpace to create Virtual Reality training modules to appeal to a wide range of learners. This session will examine the development process as well as the opportunities to empower the next generation of technicians, ensuring they are industry-ready for the challenges of tomorrow.

#### Robot Operator to Integrator: A Career Pathway to Prosperity

- Time: 3:00-3:45 PM  
Location: Room 207B, Henry B. González Convention Center  
Speakers:
- Paul Aiello, Executive Director of Education, FANUC America Corporation
  - Anne Gielczyk, Executive Vice President, NOCTI and Nocti Business Solutions
  - Anthony Nighswander, President and Founder, APT Manufacturing Solutions

##### Session Description:

The manufacturing skills gap is widely seen as a threat to the future of US manufacturing. The trend of a tight labor market, due to a combination of economic variables, baby boomers retiring and lack of qualified workers, is expected to grow as manufacturers adopt more advanced automation into their operations. FANUC America and APT Manufacturing Solutions joined forces because they saw the extreme need for qualified, skilled workers in robotics and advanced automation, specifically the integration of these technologies into systems and the future workforce needed to support them. Join this session to learn how they worked with industry and education partners to develop programs to provide career pathways and upskilling options through high-school, training organizations, post-secondary colleges and universities – all aligned to employers' needs.



Friday, December 6, 2024

**Building Pathways to Success: The Stratasys Certification Program Journey**

Time: 10:00-10:45 AM  
Location: Room 303C, Henry B. González Convention Center  
Speakers: 

- Jesse Roitenberg, Director of Education, Stratasys
- Heidi Speese, Director of Education, NOCTI/Nocti Business Solutions

**Session Description:**

Join us for an engaging session where Stratasys shares the journey of developing its certification program with education and industry stakeholders. Beginning with a vision to empower students and professionals with cutting-edge skills in additive manufacturing, Stratasys identified a crucial need for certification to validate competency and proficiency in 3D printing technologies. Discover how Stratasys navigated the landscape of educational requirements and industry expectations to establish its certification program. Key highlights include the strategic partnership selection process, culminating in the collaboration with NOCTI. Learn about the criteria and considerations that led to the collaboration. Firsthand accounts of best practices implemented during the program's development phase and how these strategies have contributed to its widespread success will be shared. Participants will gain insights into the practical implementation of the certification program, success stories, and valuable feedback gathered from the field. Walk away with actionable insights and inspiration.

**The Massachusetts Leadership Academy: Shaping Tomorrow's Educational Leaders**

Time: 11:00-11:45 AM  
Location: Room 303C, Henry B. González Convention Center  
Speakers: 

- Amie Bloomfield, Chief Operating Officer, NOCTI/Nocti Business Solutions
- Dr. Edward Bouquillon, DMSNE Consulting
- Dr. Kathleen McNally, CEO, NOCTI/Nocti Business Solutions

**Session Description:**

The MAVA Leadership Academy, designed by experienced professionals associated with the Massachusetts Association of Vocational Administrators (MAVA), stands out as a distinguished program uniquely designed to address the distinct management requirements of vocational education in Massachusetts. This impactful initiative develops administrators and leaders with a focus on adapting to dynamic educational landscapes. Join this session to explore the program's framework, discover essential resources for participants, and understand the transformative impact it has on shaping future leaders in Career and Technical Education (CTE).