P-TECH Drives Student’s Creativity In CADD

Forestville senior Garrett Sliwinski has known since sixth grade that his life would revolve around technology. The Computer-Aided Design & Drafting (CADD) standout in P-TECH is pursuing his passion in the classroom and as co-owner for two startup businesses, Electro Tech Laboratories and Imagine Integrated Technology.

“We have drawn a lot of resources to build a lot of things. One of our more recent things is a liquid that can hold data. Instead of using a hard drive that needs to be cooled down, the wet drive as we call it, uses thermal energy to store molecules within the liquid. You can store anything that a normal flash drive can hold,” he said. “It’s a little bit of chemistry but a lot of it was physics, trying to figure out how we’re going to read this data and what’s going to store the data on the drive. And since it’s a liquid how to read it in a predictable state. We were able to engineer some molecules that under the temperature of 99 degrees it forms in a predictable state.”

The wet drive is just one of a handful of products Garrett is exploring and developing. The entrepreneur credits the freedom he has at P-TECH to explore his imagination.

“P-TECH went hand-in-hand with my interests,” he said. “Here at P-TECH you choose a pathway and they provide you with resources and information that contributes to growing your knowledge in that interest. The major benefit of P-TECH is that the work is more personalized. It feels like you are free to explore your pathway. You’re working on projects all the time with multiple people and it gives you good insight on how the world actually works. Most of the work is project-based, outside of the classroom work. You can work on a lot of your own projects on your own time here and it allows you knowledge to grow pretty substantially.”

One out-of-the-classroom project brought Garrett to Point Gratiot to test the pH level of Lake Erie. The digital device used to test the water was programmed and designed by Garrett.

“High school is not meant for everyone. It’s a cookie-cutter portfolio. P-TECH tailors your education to what you need it to be,” he said. “You’ll be receiving an education that doesn’t force you to learn the material. It’s more here’s the material and you can sort through it how you need to. The best thing about P-TECH is the fact that if you’re looking to build a project and you tell the teachers about it they’ll get right on it and help you out with every step of the process.”

Garrett is one of two Forestville student enrolled in P-TECH and one of 2,545 students in New York state who are advancing their learning through a Pathways in Technology Early College High School program.

WNY P-TECH is tailored specifically for students interested in one of two educational pathways: Welding Technology or Mechanical Technology with specializations in CADD or machine tool. The up-to-six-year program allows students to earn an associate degree from Jamestown Community College in a high-demand field with no out-of-pocket expense.
Dear Board Members, District Administrators and School Community

E2CCB is continuing its ongoing effort to share student stories and outcomes through our Educational Collaborations which highlights how E2CCB is impacting your students, programs and operations.

Thank you for your on-going collaboration as we work together to provide programs and services to support students and districts throughout the region. We continually strive to build and strengthen our programs and services for students in your district as well as maximize operational efficiencies through shared services. We look forward to our continued partnership and making opportunities to best serve the needs of your students, teachers and administration.

David O’ Rourke, Ph.D.  
District Superintendent

Danielle O’Connor  
Assistant Superintendent for Curriculum & Instruction

John O’Connor, Ed.D.  
Assistant Superintendent for Management Services

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**Student Thrives In Work Experience Program**

Forestville Student Mya Torres is excelling in her program at the LoGuidice Educational Center.

She is a ball of energy that brings joy to everyone around her. In her free time she likes to spend time with family, watching television and hanging out with her cousin.

She participates in the work experience program and enjoys working at the E Brew Coffee Shop and the Spotlight Cinemas in Dunkirk.

Mya is an athlete and competes in the local and national Special Olympics. She has won ribbons for track and field at both events.

When Mya graduates she hopes to work in retail because she enjoys helping customers.

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**CTE By the Numbers**

Automotive Body Repair: 1 student  
Automotive Technology: 2 students  
Career and Technical Explorations: 2 students  
Conservation/Natural Resource Management: 5 students  
Construction Technology: 1 student  
Cosmetology: 3 students  
Criminal Justice/ CSI Forensics: 2 students  
Culinary Arts: 1 student  
Health Careers: 1 student  
Information Technology/Computer Systems: 1 student  
Small Animal Science: 2 students  
Sports Conditioning and Exercise Science: 1 student  
Welding and Metal Fabrication: 3 students

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**Career & Technical Education**

Students enrolled in an approved CTE program acquire the skills, knowledge and professional practices necessary for success in college and the workforce. Students experience relevant, challenging, industry-aligned curricula supported by current technology in learning environments that foster high academic achievement and skill development. Course work is organized to provide both theory and hands-on.

Students have an opportunity to participate in internships with business, industry and education partners. Curriculum is assessed against national industry standards and meets the Common Core Learning standards.

Upon the successful completion of the two-year program, CTE students meeting specific criteria will earn a Technical Endorsement on their Regents/Local Diploma.
Kyle Morgan has always had an interest in computers and technology. The Forestville senior is enrolled in the Information Technology/Computer Systems program at the Carrier Educational Center where he's gaining the knowledge he knows he'll be able to use in a field he's passionate about.

“I love this and I love coming here every day. I just want to stay here and work on all of my projects but it's still nice to go back to my home district and not be so busy, too,” he said. “We can be real busy in our Information Technology class.”

When he's not in class Kyle is playing Airsoft, hunting, or playing console video games. He's dabbled in trying to make his own 2-D platformer game at E2CCB, one of the many opportunities he's embraced.

“This class is energetic and fun. It's not just sitting there and listening to lectures. There are more hands-on projects and you're learning more about what you'll possibly do in your future,” he said. “This is a fun experience and you're learning more about what you'll have to do in the future. It's kind of like a job and you have to do what you have to do.”

After graduation, Kyle plans to enlist in the Air Force Pararescue and pursue a career in cyber security.

“The thought of being able to hack and protect some important data is interesting to me,” he said. “In five or 10 years, I hope to be working in a small business of my own though. My family is happy I'm doing this program because they know I'll be getting in a good field and be financially stable.”

Kyle stays busy at Forestville by playing in the jazz band, marching band and in musicals. Trying to balance everything has become easier thanks to project management skills he's learning at Carrier.

“Time management has been a big one for me,” he said. “In traditional school I always did everything last minute and now I’m getting everything done before it even needs to be. It's something I've really learned here.”

Kyle is one of the 37,313 students developing college- and career-ready skills through Career and Technical Education programs in New York state.
**Shared Services**

**Career & Technical Education**
- P-TECH: Pathways in Technology Early College High School
- Alternative Education
- General Itinerant Services
- Staff & Curriculum Development
- Cooperative Bidding
- Central Business Office
  - Shared Business Manager
  - Shared Facilities Director

**Super Eval: Superintendent**
- Evaluation Tool
- Risk Management
- Certification
- Shared Human Resource Manager
- Management/Human Resources Audit
- Planning Service Management
- Labor Relations
- School Public Relations
- Regional Grant Procurement
- Arts in Education
- Visiting Experts

**Environmental Education**
- Shared Associate Superintendent
- Instructional Technology Resources
- Science Resources
- School & Societal Perspectives
- Coordinated School Health
- Shared Athletic Trainer
- Community Schools
- School Library System Services
- Food Service Management
- Instructional Media Services
- Distance Learning
- New Visions

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**25** Students attend Career & Technical Education Programs

**$652,446**

BOCES Aid Generated to District

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**11** Students attend Special Education Programs

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**4** Students attend Alternative Education Programs

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**11.98%** of District Budget Comprised of BOCES Services

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**2** Students attend the P-TECH Program

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**Forestville Central School District**

*Enrollment data is from current year*
*BOCES aid and budget information based on proposed 2018-19 budget*
*Duplication of student counts may occur due to dual enrollment*