

Central Virginia Advanced Manufacturing Initiative

Project Impacts

Piedmont Virginia Community College's Central Virginia Advanced Manufacturing Initiative grant project team has created impressive project-based-learning modules and an award-winning partnership with a regional employer. Ten Modules have been created and shared with more than 15 secondary instructors at six high schools to develop a sustainable pipeline of students for the regional workforce. More than 17 area employers serve on the advisory committee for this new program to inform relevant curriculum. One employer has begun hosting PVCC courses on-site for 23 employees while covering the cost of tuition, supplies, and materials. This unique partnership was recognized at the statewide Career and Technical Education awards ceremony hosted by the Virginia Department of Education. Through industry collaboration classroom concepts come to life through work-based problem solving. In Spring 2019, a group of first year electronics students developed a wireless device that will integrate into the manufacturing process for a local facility.

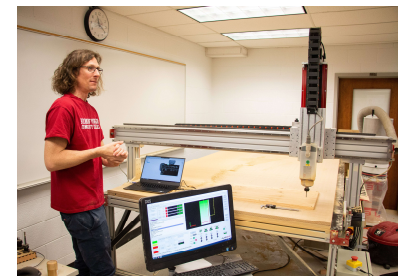
Industrial Electronics Technology Piedmont Virginia Community College



End of semester student project showcase

New Courses to fulfill specializations created by industry need, Fall 2020

- ETR 107** Programming Applications
- ETR 230** Mechatronic Process control
- ETR 243** Digital Analog and Data Communication Systems
- ETR 286** Principals and Applications of Robotics
- MEC 131** Static for Engineering Technology
- MEC 210 & 212** Machine Design I & II



Teaching CAD/CAM/CNC to students using 5x10 router matching local architectural millwork manufacturer!

www.pvcc.edu/technology

Eric Bredder

ebredder@pvcc.edu

Katie Thach

kthach@pvcc.edu

Erica Fultz

efultz@pvcc.edu

Outcomes Data	2016	2019	% Increase
Student Enrollments	86	178	106%
Courses *Includes 9 on campus, 1 online, 2 at industry sites	7	12*	71%
Declared Majors in Industrial Electronics AAS, Certificate of Electronics or Advanced Manufacturing	18	45	150%