



NSF-ATE Project: TEACH CPS-ED

Technological Education, Advancement, and Change in Cyber-Physical Systems Education
ATE Project 1902499 | Chippewa Valley Technical College, Eau Claire, WI
PI: Tim Tewalt, ttewalt@cvtc.edu, 715-874-4630, cvtc.edu



Note to ATE Community: *The project started on October 1, 2019 and as we were starting to get ready to implement our plans COVID hit. As a result many of our activities that would normally be shared are now starting to take form in our second year and also depending on the limitations we all face during the pandemic. If this projects seems like it has things you're interested in please contact me and I'll update as we see things take form. Thank you for understanding. Respectfully, Tim Tewalt, PI*

Objective 1: Enrollments in CVTC Automation Engineering Technology, Industrial Mechanical Technician, and IT-Network Specialist programs will increase by a total of 5% over the project period.

Associated activities:

- a. Offer recruitment events and exploratory activities to increase the awareness of potential college students about careers in cyber-physical systems and two-year educational programs leading to these careers.
- b. Provide rural, first-generation, and underrepresented high school students from at least 50 schools throughout the state of Wisconsin access to online materials related to cyber-physical systems.

Objective 2: At least 75 high school students will earn dual credit, credit for prior learning, and/or credentials in mechatronics, industrial controls, industrial robotics, and/or IIoT content areas.

Associated activities:

- a. Offer dual credit, self-paced online modules in cyber-physical systems for students from partnering high schools.
- b. Collaborate with partnering high school teachers to plan and deliver instruction, providing ongoing support throughout the delivery of the four modules.