

Tech Wars 2022 – Niagara County Community College

Competition Category: On-Site Parametric Modeling

Level of Competition: High School – Grades 11 -12

Coordinator: Peter Sewert (Psewert@starpointcsd.org) (Any questions? Email the Coordinator)

Description of the Competition:

This category allows for high school 11th and 12th grade students to prove their parametric modeling skills. This is a display of the students' ability to create a parametric model, and assembly in a timely manner, from measuring a given part. Judges will base their scores on: completeness and accuracy.

Rules of Competition:

1. Limited to two entries per district (ONLY 20 seats in the lab!!! First registered, first entered. 2. Students are given access to the NCCC CAD labs. The PCs have SolidWorks and Inventor. Districts interested in using another system/software are responsible for supplying their own equipment, and be set up the night before.
3. The total project build time allotted will be two hours. 4. Parts will be given to each student to be measured and build from. (The same parts for all students). 5. Students will use digital calipers (supplied) to measure all dimensions needed to complete the model.

Scoring/Evaluation:

At the conclusion of the two hours, students will leave their models on the screen for the Judges review with all model dimensions turned on. The judges will award drawing points based on completeness, and accuracy. A perfect score will be 100 points. Judges will use scoring rubrics in the evaluation process.

