



Tech Wars 2019

**Niagara County
Community College**

Competition Category: Reverse Engineered CAD Drawing

Level of Competition: High School

Event Coordinator: John Connor jconnor@clevehill.org

Objective of Competition: Reverse Engineered Drawings This category allows for high school students to display their very best technical drawings. This category is for 2D CAD drawings. You can enter a multi-view drawing with a 3D model. This is a display of the students' ability to create technical drawings, not their design ability. Judges will base their scores on: View layout, Neatness, Difficulty, Drawing Standards and Conventions.

Rules of Competition:

1. Limited to one entry per student.
2. Student must pick an object and reverse engineer the drawings from it.
3. Requirements: Object must have at least 5 components Full assembly drawing is required Completed detail drawings for every part (fully dimensioned) One 3D rendering of the entire assembly
4. Project must be student's original work.
5. Students must utilize standard CAD equipment.
6. The object must accompany the student's drawing(s) -This is to verify if proper dimensions and lines types are shown
7. Students may need to be present to answer any questions from the judges if they arise.
8. The title block should contain the student's Full Name and School Number on it.

Judging Criteria (Rubric): Judges will review all projects on display. The judges will award points based on the size, completeness, difficulty, standards, and drawing skills. A perfect score will be 40 points. Judges will use scoring rubrics in the evaluation process. See attached rubric.