

Solid Modeling

Purpose

Evaluate each contestant's preparation for employment and to recognize outstanding students for excellence and professionalism in the field of 3-D computer solid modeling.

Equipment

The equipment supplied by UW-Stout will be: 25 workstations with SolidWorks and Inventor.

Contestants Equipment - *Do not bring plotters or printers.*

Contestants may bring their own hardware and software. The contestant is completely responsible for its operation and configuration. The following will be provided:

1. Electrical Power - 110 volts AC with 3 grounded outlets
2. Table
3. Chair

Supplies Provided by the Contestant

1. Pocket calculator
2. 10 sheets of clean white 8 1/2" x 11" scratch paper
3. Ink pen, for writing test and sketching

Reference Manuals

You are permitted to bring and use the reference manuals for the Computer Assisted Drafting Software you plan to use.

Scope of the Contest

1. Once the contest begins, no technical assistance will be given to the contestants.
Only general instructions on contest procedure will be given.
3. Approximately 1.5 hours are scheduled for the 3-D computer solid modeling contest.
4. Sketching and taking notes during the contest is permitted.
5. Contestants will be given a drawing of a mechanical part or parts with complete dimensions. The contestants will be required to create a complete and accurate 3-D solid model of the part or parts.

Judging Criteria

The 3-D solid model must be saved on the computer and left on the screen for judging. The time of completion will be recorded when the contestant notifies the judges that they are done. The judging criteria will be completeness, accuracy, and time required for completion of the 3-D solid model. In the event of multiple complete/correct solutions, contestants will be ranked based on the amount of time required to complete the model with the least time being ranked highest.