Engineering Day 2021

Workstation Build Contest

Goal:

Assemble parts into a bootable computer.

Rules/Judging:

1. Students will work in groups of 2 to assemble provided computer parts into a working computer.
2. Components will include:
   - Case
   - Motherboard – Processor and heatsink will already be installed
   - Power Supply
   - Optical Drive – DVD capable
   - Hard Drive – SATA
   - Cables - SATA
   - RAM –
   - Graphics Card – PCIe
3. Students must identify components, assemble parts, and power up the computer.
4. The computer should POST.
5. If students complete the workstation build, they may use the remaining time to install windows 10 from a DVD.
6. An experienced high school technician will be available to advise each team and help ensure success.
7. All tools, components and materials will be staged and at the ready.
8. The time limit is 20 minutes with judging accomplished by Crowder instructors and/or IT specialists.

Score:

Students will be scored on a rubric and earn points for how well they install the various components (e.g. power supply, motherboard, hard drive, graphics card). The team with the highest score wins.