

## CNC 5-axis Milling Programmer – 2024

### Overview-

We will start at 8am with an overview of the contest and an introduction of the Chairs and Judges. Students will be supplied with a print, model, process plan and a CNC theory exam shortly after introduction. First, the CNC theory exam will be completed, this will be generic shop and machining questions with multiple choice answers and will be turned into the judges once they complete. Once turned in, students will get right into the contest and start programming the part with the supplied print, model and process plan. The Judge will be able to help with general questions and explanations but unable to help program or complete any tasks. During the programming, students will be pulled one at a time to do an interview. This will be part of the competition as well and we will notify them when it is their time to interview. Once students complete the part programming, they will signal for a Judge to come review and grade their work. The judge will use the student's computer to grade and review their program. Once we have graded the programming portion, all remaining materials will be turned into the Judge and the student can be dismissed at that time. Contestants will typically complete around noon.

### Student requirements-

- Laptop or PC with access to cam software (Mastercam, Fusion360 or Catia)
  - Media will be transferred via USB drive
  - Files used: Word, PDF and either .STP, .SLDDRW or .STEP
- Pen or pencil for notes and written test
- Basic calculator

Any additional questions or concerns, please contact below. Provide the below information to the contestants if there is an issue finding the room or anything else the day of.

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