



2024 MFG DAY - STUDENT DESIGN CONTEST

Wisecarver Innovation Award

Idea:

Imagine you have access to an '8th-axis robotic system': a platform that moves along the ground in a straight line, carrying a second platform that lifts a robotic arm up and down.

Suppose the system can move the robot up to 100 feet horizontally and up to 20 feet vertically. The robotic arm can reach up to 10 feet and lift up to 100 pounds. You may decide to make the system smaller than these limits. The end of the robot can be equipped with various devices, grippers, and sensors.

Description:

For the 2024 Bishop-Wisecarver design contest, students are to create/design the following:

Design a system or piece of equipment that leverages the unique capabilities of this '8th-axis robotic system' to solve a challenging problem. Your concept should demonstrate a practical and impactful application, whether it's in manufacturing, healthcare, space exploration, entertainment, or another field. Consider the arm's ability to perform intricate tasks, reposition in a variety of directions, and operate in dynamic environments.

Prizes:

One (1) winner will be chosen and receive \$250. Their school will also receive a \$1,000 donation from Bishop-Wisecarver.

How to Submit Your Idea:

Provide a 60-second video that includes an overview of the idea and what it does. In addition to the video, please attach drawings to support your robotic system design.

Dates & Deadlines:

The design contest kicks off on October 4, 2024. Please submit your video, drawing(s) and contact information to mfgday@BWC.com. Deadline to submit is December 20, 2024.

Contact Information for Submission:

Name:

School Name & Address:

Grade:

Winner:

The leadership team at Bishop-Wisecarver will review all entries and determine the winner of the 2024 Wisecarver Innovation Award by January 17, 2025.

Three key areas will be used to determine the winner (in no particular order or importance ranking):

1. Innovation -- How does this idea represent a process improvement for the entertainment/automation industries?
2. Thinking outside the box -- Originality of idea.
3. Executable -- Is this something that could actually be developed/implemented leveraging existing or new technology?

Eligibility:

Eligible to students currently enrolled in a primary or secondary accredited educational facility only.

Questions: Please contact us at mfgday@bwc.com.