

Vex Robotics Instructional Video (Tower Design)

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Definitions:

- Floating Tower: A floating tower is a design in which not all of the vertical components of the tower are connected to the chassis.
- 3 Points of contact: The practice of always using at least three points of contacts to provide structural support.

This short video is meant to help both experienced and rookie teams in the building of both a strong and reliable competition ready tower. Some of the main points in the video are the importance of using three points of contact and how to build a strong floating tower. The reason for using three points of contact is because it provides a very stable connection point and is able to support great load on the joint similar to using a triangle. However when applicable the use of more connection points will always increase strength and stability.

The floating tower is a design that our team uses extensively to help decrease weight, decrease material usage while keeping the structural integrity intact. Overall we hope that many teams can learn from this video and that it will help them gain an edge in their future competitions.

Special thanks to:

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