

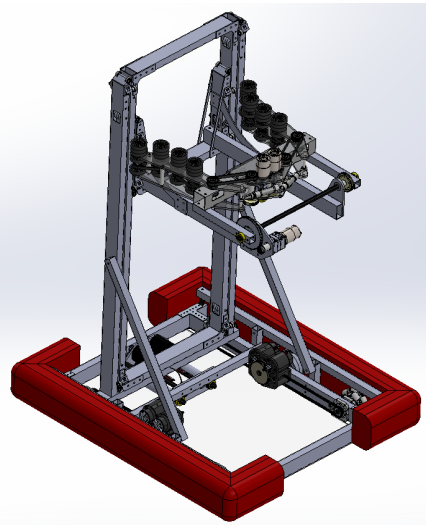
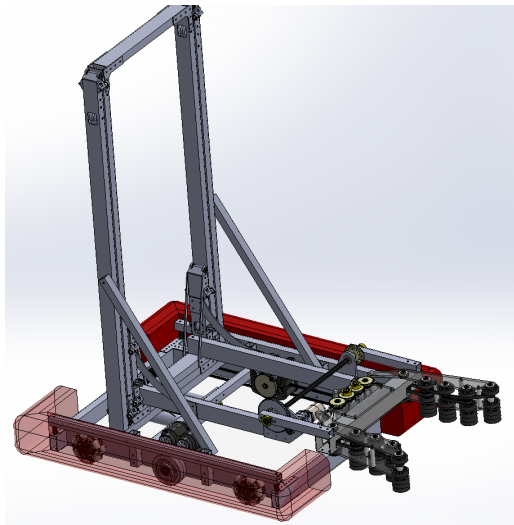
# Steven Kuo

[stevenkuo711@gmail.com](mailto:stevenkuo711@gmail.com) | 443-640-8669 | College Park, MD 20742

**Project:** Modeling a FIRST Robotics Competition (FRC) Robot in CAD

**Description:**

This is a personal project where I design a FRC robot in Solidworks so that I can translate my Autodesk Inventor skills and experience from FRC Team 1727 into Solidworks. The robot is designed to manipulate cubes and place them on elevated platforms at various heights. This is achieved through an intake with compliant rollers on a two stage elevator.



**Project:** FIRST Robotics Competition Team 1727

**Description:**

For the 2022 season, I managed a team of twenty people to design a robot that can intake 9 inch diameter tennis balls from the field floor and shoot them into a funnel 8 feet above the ground. Additionally, the robot was designed to climb a series of monkey bars that increased in height. In terms of the robot, I mainly developed the geometry of the intake on a four bar linkage and the gearbox for the climbing mechanism with CAD in Autodesk Inventor. I also assembled the intake and climbing mechanism, as well as operated and troubleshoot 3D printers to produce parts. Furthermore, I oversaw the programming team and aided with debugging.

