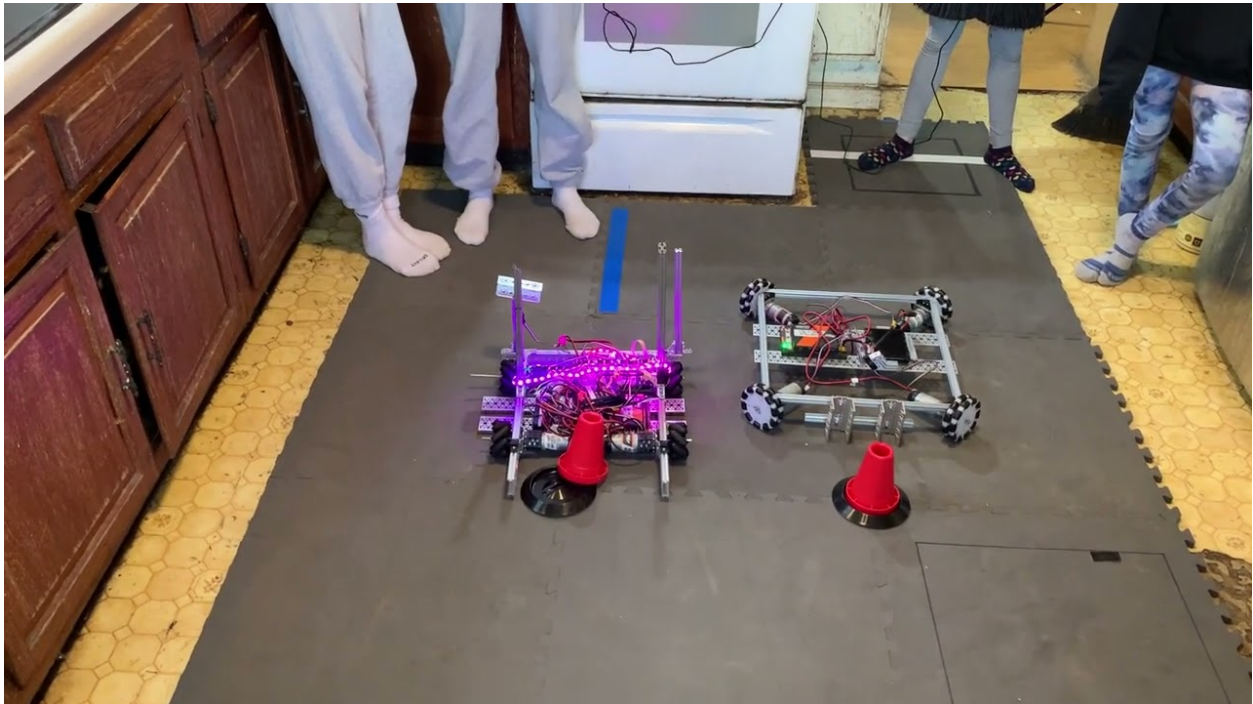


2022-23 FTC Season Power Play

Workshop 1

Both teams gathered to compare chassis designs using two motor tank drive versus 4 motor omni wheel and 4 motor mecanum drives. The teams also compared the Java programs to operate the robots and select a design that best suited their goals.

Comparison of Chassis 1 <https://youtu.be/BrmJTms2j5E>



Workshop 2 (12/03/22)

The teams revised their chassis designs and compared the motors mounted inside the channels versus using Motors mounted inside the main body of the robot. Each team utilized a different design.

Linear Slide Demonstration Prototype



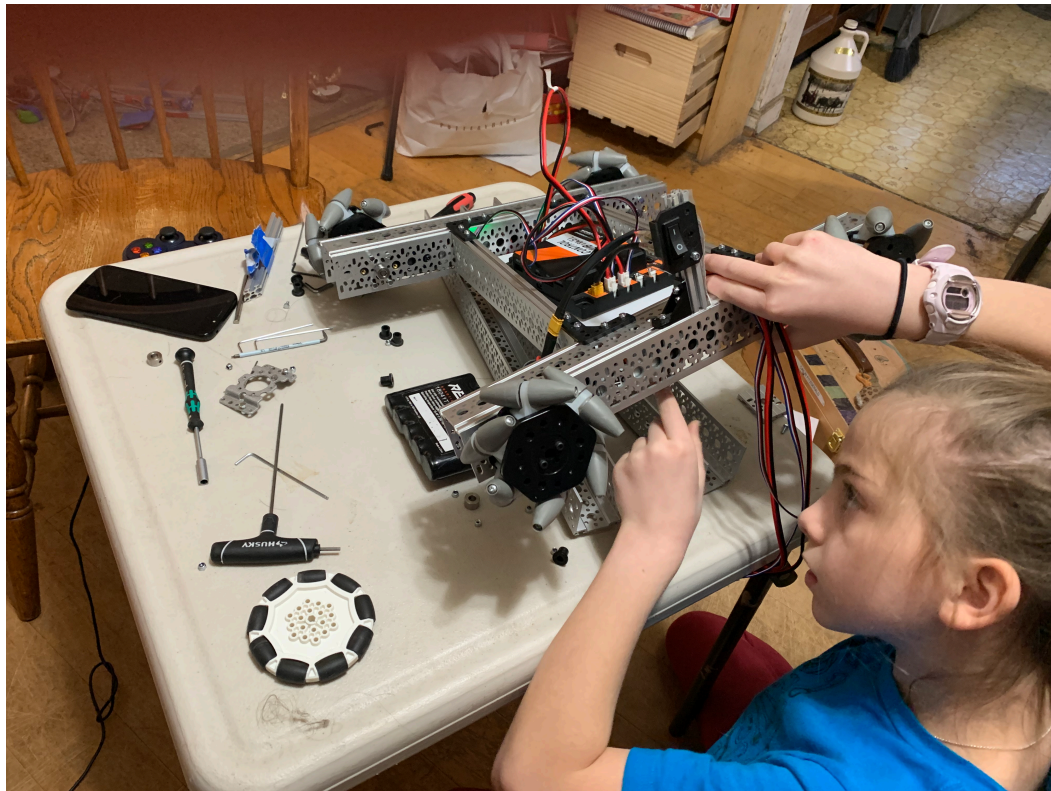
Workshop 3 (2/3/23)

The focus on this workshop was on modifying the chassis.



Workshop 4 (2/4/23)

Transitioning to Mecanum Drive



Programming Mecanum Drive for the first time



Workshop 5 (2/10/23)



3D Printer Assembly

Cailin invested about 24 hours over four days to assembly the Prussa Printer, which was made possible by a grant from Vermont Science Counsel.

12/05/22 Mounting Stepper Motors for Z Axis



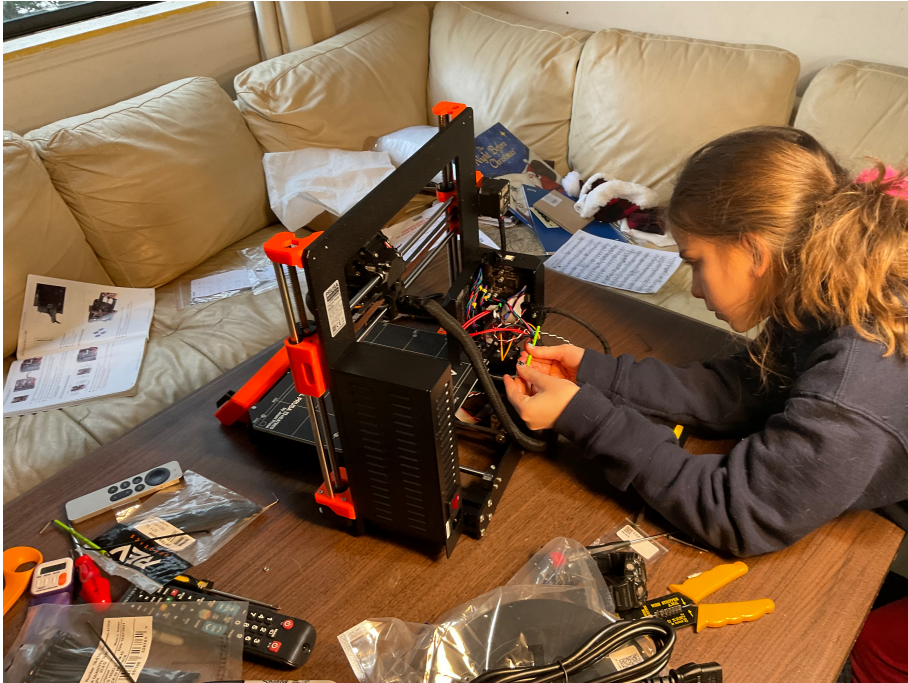
12/11/22 Running Wires through Sheath



12/12/22 Fitting the Build Plate



12/13/22 Final Wiring



CAD Workshops

Team members were encouraged to complete online training through Prussia to learn how to design and print 3d parts for the robot. Ultimately, the team printer alliance markers in both red and blue for the teams.

Vermont Competition

Both teams competed in the Vermont State Championships. Inspection and presentations went well enough that the teams directed their attention to developing autonomous methods.

Inspection with Judges



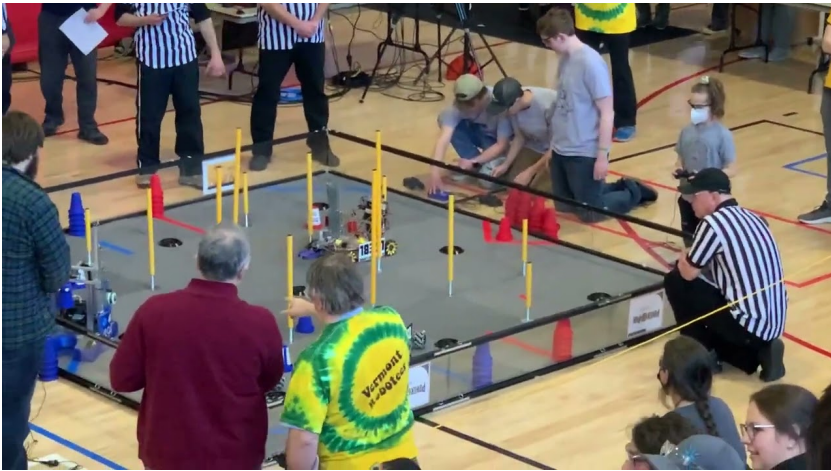
Programming Autonomous



<https://youtu.be/d6wpvdvz4eM>



<https://youtu.be/JUkmLaibdJY>



<https://youtu.be/f-VcM8RWdes>



