

Build - Week 1 Newsletter

After a restful winter break, we enter our build season, prepared to tackle the challenges of the 2023 FRC game, Charged Up!

On Day One of Kickoff, January 7th, 2023, MVRT leads gathered together in the morning to watch the release of the game and understand all the rules from the game manual.

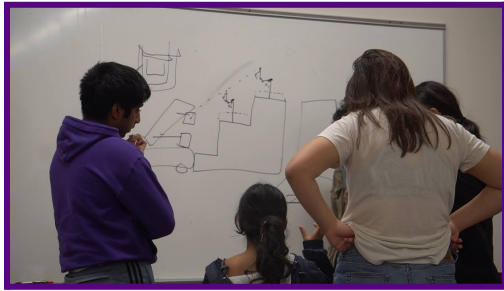


In the afternoon, all members joined to discuss strategies for the game by splitting into groups. After discussions, rookies presented the strategies and priority lists they came up with. Many groups believed in prioritizing driving, intaking both cones and cubes, as well as scoring high.

On Day Two of Kickoff, Sunday, January 8th, the season's priority list was reviewed and finalized at the beginning of the meeting. Then, everyone split into groups to discuss possible design prototypes for manipulators based on the priority list. Groups went on to create sketches of possible designs for each subsystem, and presented their general designs to everyone else.



By the end of the two days, MVRT successfully created a thorough plan for the build season, highlighting what specific actions and subsystems they wanted to focus on and prioritize in order to perform well in upcoming regional competitions. In the end, MVRT decided to focus on creating an elevator to score in the high and middle rows and a claw that can intake and outtake both cones and cubes from the HP shelf!



During the week, members met from 6-9 PM on Monday, Tuesday, Wednesday, and Thursday. Meetings consisted of drawing specific layout sketches of each subsystem (the claw, elevator, and drivetrain), CADing, dimensioning, and coding each subsystem, as well as writing code for leveling and vision.

In Saturday's meeting, groups for each subsystem presented a design review to the mentors and alumni in order to get more feedback and help. Most groups have completed CADing and prototyping their manipulators, showing a successful week!



On the operational side of the team, members worked diligently to prepare for the Impact Award. Speech and essay revisions, as well as script writing for the Impact Video, all took place this week. By the end of the week, MVRT members successfully finished the first draft of the Impact Video script!

We would like to warmly thank all members, parents, mentors, and alumni who have worked tirelessly throughout this past week. During this 2023 build season, we are so grateful for all your help and excited to see what all of you will bring us!