

September 2023 Newsletter

With the start of the offseason, MVRT has been going at full speed! New vets, rookies of our previous season, tested out their new found skills after summer vet training, along with continuing to delve into the specific areas of their divisions.



Mechanical members have engaged in CAD trainings, learning how to design motors, along with fixing up the practice bot. In Electrical, new vets learned the various types of crimps through hands-on experiences. Sophie, a new veteran for MVRT, exclaims her excitement in learning by stating how she “never knew that there were so many different types of crimps.”

Mechanical also conducted special mill and lathe trainings, where vets learned how to use different types of machinery. New and returning veterans were able to learn how MVRT makes different mechanical pieces and components of the robot, and how they are made so precisely using different machines. These new skills will be used later in the build season, for constructing next year’s robot.

Software has been working on refining auton paths to control the robot during the first 15 seconds of the match. Specifically, Software has been working toward being able to consistently score 2 game pieces during the autonomous period. Alongside working with auton, software held trainings for vision, specifically on localization with April Tags.



Through such diligent effort, MVRT anticipates performing its best at its two off-season competitions this fall: Chezy Champs at Bellarmine Preparatory from September 29th to October 2nd, and CalGames a week later, from October 6th to 8th. We are so excited to show off all that we have worked on!



While the Engineering branch was working hard on the robot, Operations have re-started multiple outreach programs, including FLL, where students from fourth to eighth grade build a robot from legos to complete certain tasks. “We have made a robot to move forward and backward”, said Susanna, a 4th grade FLL member. Enjoying the team aspect, she further states how she enjoys “building with other people that were there.”

In the first 3 weeks, MVRT’s FLL teams have analyzed this year's game, made a priority list, and started to build the robot’s drivetrain. Alongside FLL, Outreach has been working hard on planning for STEM4Kids, a program that is expected to start in mid-October, partnering up with a multitude of libraries in underfunded communities to increase the accessibility of the sciences.

Alongside marketing the various starting outreach programs, the marketing division has also been designing flyers and Instagram posts for Club Info Day, providing an opportunity for new marketing members to use the skills they have learned over the summer and gain experience in the field of graphics design.

All in all, September has helped our members find countless opportunities, and practice their skills! We are thankful to all our mentors, members, and alumni who have helped us throughout our MVRT journey with thoughtful advice, and hard work along with sparing their precious time to help us become successful as a team. See you at Chezy!