

## Build - Week 4 Newsletter

From exciting developments of each manipulator, we dive into our fourth week, ready to continue overcoming the challenges of this year's build season!



During the past three weeks, groups worked on completing their initial prototypes. As a result, this week started with the testing of the software of each manipulator. For example, the intake group started testing their base code, and once it proved to be a success, they moved on to implementing PID in their code! On top of testing their code, software members also finished the autonomous code of the climber's telescoping arms.

Although there have been advancements in the testing, there are still struggles with debugging the issues present in the software, but nevertheless, the team continues to progress forward through all the obstacles!

On the mechanical side of the team, the drivetrain was successfully assembled and field elements were completed. As each individual CAD for each manipulator was completed, the team was able to create the final robot CAD. To add on, prototypes for each manipulator were continuing to be modified and each assembled manipulator was starting to be added onto the practice bot. This week has clearly been proven successful for the mechanical side of the team!





There were further advancements made in other divisions of the team as well. Electrical leads completed checking which batteries operate, and which do not. More videos and voice recordings were taken for the Chairman's Video as well!

Through the operational and engineering advancements made in this week, our team has shown great progress. We thank our mentors and parents for guiding us throughout this week!