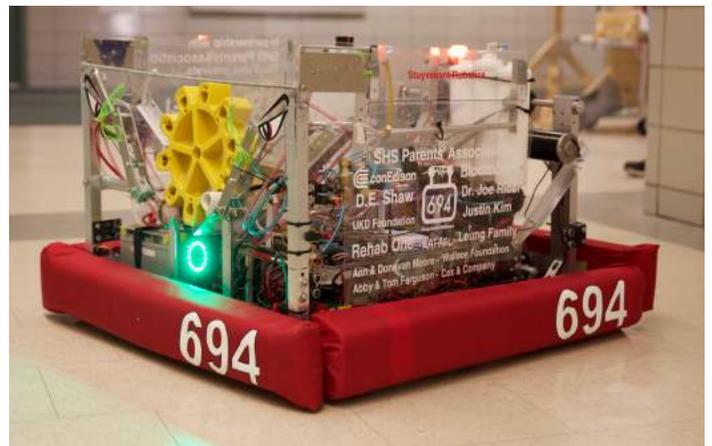
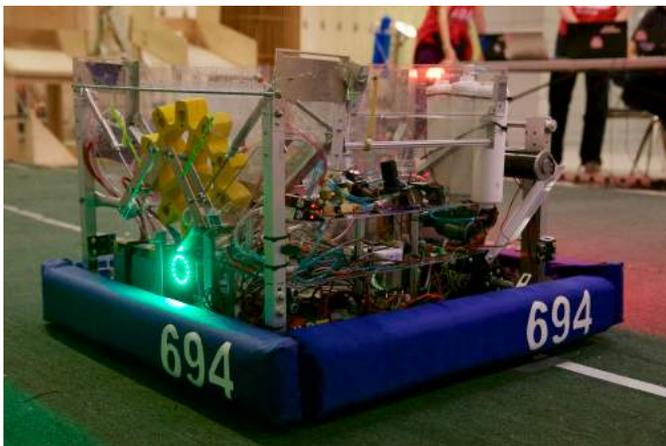




BUILD SEASON WEEK 6 NEWSLETTER



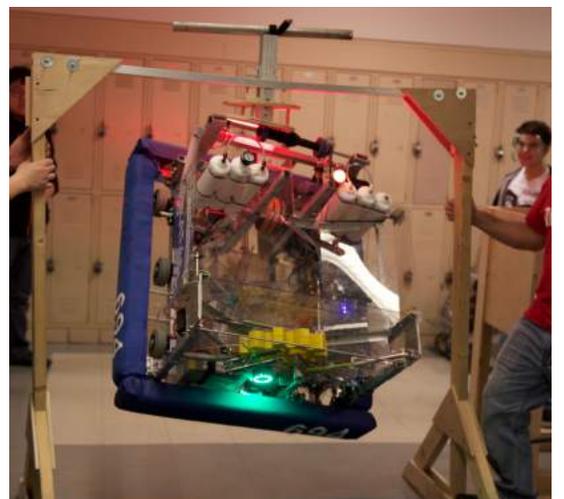
Build season is officially over! Thank you to all the members, alumni, coaches, sponsors, parents, and others for making this possible and helping us throughout build season! From providing dinner for the long meetings, to helping edit award submissions, and supporting us financially, all your help meant so much! We could not have done this without everyone. We are glad to say that RAFAEL, after much CADing, prototyping, building, and testing, was bagged and tagged at 9:33 PM on February 20th. StuyPulse wishes to see everyone at the New York and South Florida Regional!



Check out our Robot Reveal of RAFAEL on our YouTube channel @stuy694

ENGINEERING

All of Rafael's mechanical subsystems have been tested. The drivetrain, climber, and gear mechanism are all in working order, and the shooter is serviceable, although it still needs further testing. Members ran into the problem where the robot wouldn't drive straight, due to in part, uneven distribution of weight on the robot. Steel counterweights were fabricated and attached to the robot, and they helped to lessen the arc. The gear mechanism was reinforced, so it flexed less under use, and the additional braces for the climber were attached. Other tiny fixes were also made. Pneumatics made progress on fixing the leak by replacing the bad solenoid, and adding additional tanks. The blender gearbox was repaired and remounted, and the shooter/blender system was tested.



SOFTWARE ENGINEERING

Members tested and tuned the robot's software. The timing of the routine for scoring the gear was nailed down, and CV can successfully find the target and determine the right path to get to it. They also successfully tuned a routine for scoring a gear autonomously and will be working on making the auton reliable for more tasks in the match. Other members wrote supplementary code and prepared for SoFlo Regional. They formed "Mobility Missionaries," a team that will help write simple auton routines with every team they are competing with. They started learning Lab View, and collected useful code and software libraries on USBs, to quickly help teams who don't have everything they need installed.

MARKETING

Members worked on the two Dean's List nominations and the Entrepreneurship Award, and submitted both on Thursday. The merchandise and the T-shirts were ordered and have arrived. The Chairman's presentation team practiced their speech with mentors and received feedback. Along with that, members continued to work on the robot reveal and the Chairman's video. All the packing for the first regional in South Florida has been completed.

CONTACT US!

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IMPORTANT DATES!

Last Day of Build Season 2/21

South Florida Regional 3/1 - 3/5

New York Regional 4/6 - 4/9

St. Louis World Championship 4/26 - 4/30

