



Robotics E-Newsletter

FRC Team 2637



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New Leadership

During the off-season Team 2637, The Phantom Catz, finalized the selection of leadership for the 2023-24 season. The following is the list of the new President, Directors, and Leads, pictured in order below:

Team President: Annie
Engineering Project Director: Deetya
Manufacturing Lead: Eddy
Business & Marketing Lead: Shrey
Outreach & Awards Lead: Nomundari
Electronics & Pneumatics Lead: Evelyn
Programming Lead: Lisa
Strategy & System Design Lead: Ethan
Mechanical Design Lead: Oliver
Safety Lead: Kaili
Finance Admin: Dylan
Team Admin: Chloe

Most Current Event

FIRST LEGO League

The *FIRST* LEGO League (FLL) is a robotics competition for elementary and middle school students, using a LEGO robot to complete multiple missions within a specific time frame.

On September 13th, we officially began in-person meetings with two of our five FLL teams. The Phantom Cubz (54040), our all-girls elementary school team, and our middle-school team The Phantom Botz (30714). We've finished building missions, (field elements), and have initiated our online meetings with our Arizona Team 30713 and 59876, which we've founded at Holbrook Indian School. During the meeting, we introduced the basics of FLL and virtually opened packages with them. As of this year, we have five active FLL teams. We plan to start a practice season with our newest team in Uganda, who will be working with FLL kits but will not be participating in competitions.

Subteam Training

As you may know, FRC Team 2637, The Phantom Catz is separated into 7 distinct subteams. Each subteam has been engaging in various different types of training and instruction to equip new members with the skills essential to the completion of their subteams' respective tasks for the upcoming competition season. We began training our newly recruited members in early September, when students and parents were thoroughly introduced to our program and buildroom. We plan to continue this throughout the duration of preseason to set our members up for success during the forthcoming build season. Team leaders, and mentors are going to great lengths to ensure that the incoming members are up to speed on subteam-specific talents and team standards.

Drive Team Tryouts

For this year's Drive Team tryouts, our Strategy subteam held a small "mock game" called Rocket Rumble. Tryouts were held for the prestigious positions of Drive Coach and Main Driver. Applicants drove either Atlas, Helios, or Overtime around a game field, with the objective of scoring a yoga ball into a mini soccer goal. With one minute remaining the announcer would commence one of three mini games, which rotated through different tasks, which ranged from hoarding game pieces, to sorting them in separate goals. Members from the Strategy subteam helped out by acting as field resets, and the Electronics subteam helped by providing fresh batteries for the robots. The tryouts also

provided excellent training to become technicians for the team. After Drive Coach tryouts had run through, the team also hosted their Strategist tryouts with many members signing up to participate. The team is excited to find their ideal Strategist for the team.

Subteam Logs

A weekly update from each of Team 2637's individual subteams

Systems:

Manufacturing: This month, Manufacturing has worked tirelessly to finish Overtime (our first robot) and Atlas (our second and main robot). We completed all of the necessary mechanisms so the robots are now ready to be tested on the field. Concurrently our new members are being trained on how to operate all of the machines they will be using throughout this season. We diligently train our members with safety procedures in mind to make sure the parts they create are high quality. They will be starting to work on creating our robot around kickoff in January.

Design: Mechanical Design has been finalizing and communicating the redesign of Overtime, one of the robots we are taking to SoCal Showdown. We have been reviewing the design with mentors and overseeing handoff to other technical subteams. Design has also been working to train new members on CAD so that they can work to create designs for our next season.

Programming: Our programming subteam has been busy working with and on our scouting resources: Drive Team Feeder (DTF) and Scouting App as well as our 2 robots: Overtime and Atlas. Our robot Overtime is ready to be programmed and it has 3 main mechanisms: indexer, intake, and shooter. Each mechanism has been fine tuned and is ready for vigorous testing. Additionally auton paths have been written and are ready for testing on the field. Our robot Atlas has been through testing and is now being returned for

seamless communication between mechanism and automated configuration. Over on our web development group, the Scouting App is almost ready to be tested by users, as we are nearly finished with bug fixes that were left over from the past season. Meanwhile our DTF has been improving the UI and backend through additional graphs and bugfixes.

Electronics: Electronics and Pneumatics has had an important month for planning. We've planned out the wiring and pneumatics of the new mechanisms on a redesigned Overtime, and we are starting to research projects to improve our understanding of electronic components. We've also completely finished new member training, and the new members have started their first big task, wiring up an old belly pan to be fully functional.

Business: The Business & Marketing subteam has been working on many projects throughout the month of September. Firstly, they continue work on the team website, refining its content and images so that they are accurate and up to date, next they hosted our first fundraiser for this year at Mod Pizza. With SoCal Showdown coming up they have been busy working on creating a competition packet full of information for students and ordering merchandise for the team to wear at this offseason competition! They are also preparing for team hoodie orders later in the year as it is an important part of our team's image and branding.

Outreach: This month, the Outreach team has been holding FLL meetings with our all-girls elementary school team 54040, the middle school team 30714 and the two Holbrook teams (30713, 59876). Outreach is currently collecting used laptops to donate to our Uganda FLL team. The Outreach team is also working to prep their new members for the upcoming offseason competition SoCal Showdown. As they will be in the pit and are responsible for answering questions from the judges as well as preparing to present on awards. They are also planning their first two stem development courses, which will take place in October.

Safety: This month, Safety has been settling into routine business, as well as preparing for the upcoming SoCal Showdown competition. Creating weekly safety reports, making PRs for missing safety items, and managing safety at meetings have all been part of the

"daily" routines for Safety. In anticipation of the competition, however, other measures have been taken to ensure maximum safety on and off the field. Miniature first aid safety kits are in the process of being assembled, to be kept in several places around competition, and a list of safety items are also in the process of being created, to be kept in the pit. Additionally, a safety contract will be fabricated for all members to read over and sign so everyone attending is aware of rules and regulations pertaining to safety at competition. We hope that no accidents will occur, but will take all measures necessary to prepare for one.

Strategy & Systems Design: This month, Strategy & Systems Design has been preparing for SoCal Showdown as well as continuing to train members. We have been working towards selecting roles for our drive team through a series of tryouts, as well as training new members on qualitative scouting and strategy creation.

Upcoming Dates

Team Meetings:

Wednesdays: 3:30 pm-7:00pm

Fridays: 3:30pm-7:00pm

Saturdays: 9:00am-1:00pm

Extra Info

Did you know we are now sponsored by Kenesto!

[Check the calendar](#)

Fun Robot Fact

DID YOU KNOW?

Early uses for robots were manufacturing cars on assembly lines in the 1980's

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To Whom We Are Extremely Grateful

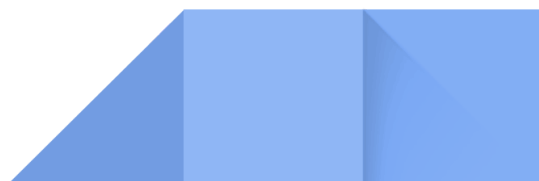
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