



# Robotics E-Newsletter

## FRC Team 2637



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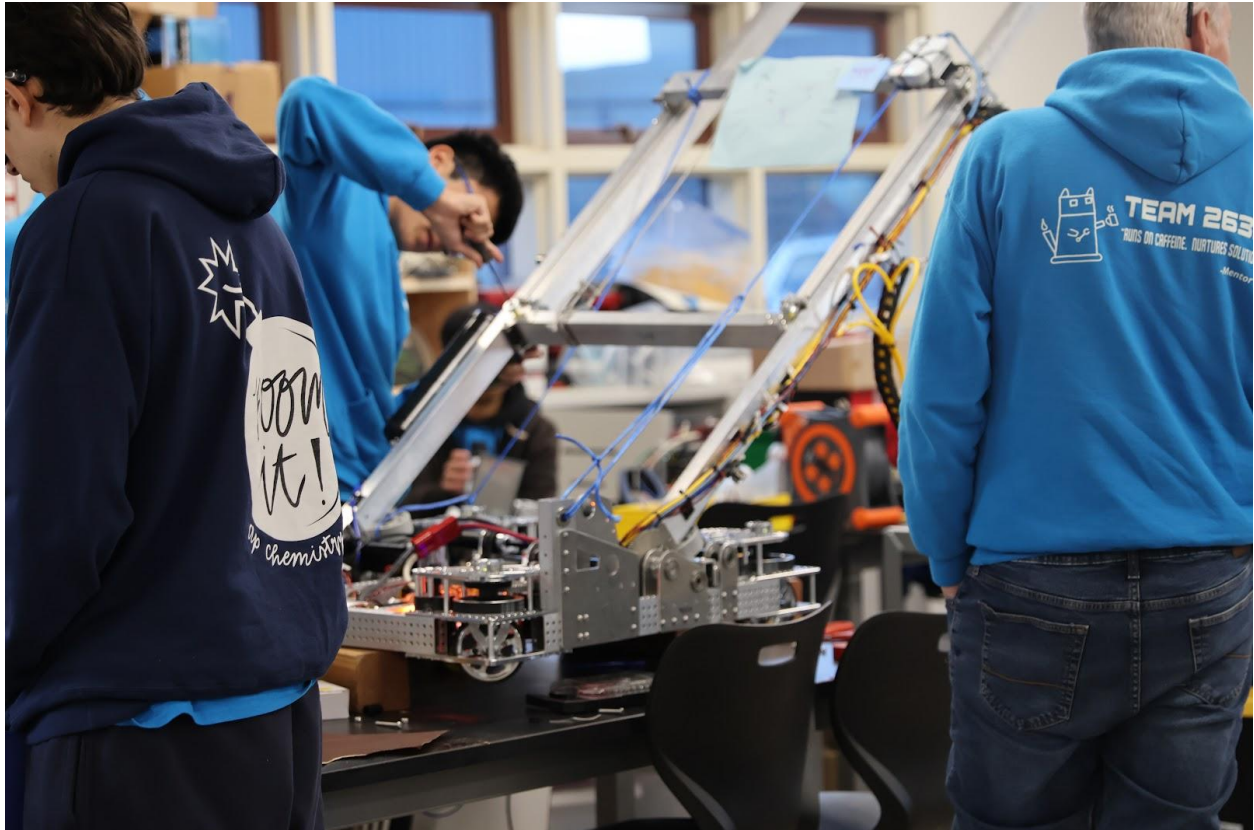
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## Most Current Events

### Summer Activity

Along with enjoying our summer break, our team has been doing some offseason work, such as organizing our inventory, creating new CADs, and wiring our old robot, Overtime, for our upcoming offseason competition. We have started getting back into the swing of things as we approach the preseason, and we have continued our weekly meetings. All of our subteams are also preparing for new members to arrive, which means that it's time for us to review our training presentations and teach the incoming students all

about robotics, our team, and FRC.



## Orientation

Our team has been working on recruiting new members for this year's season. On August 28th, our team held a lunchtime orientation for both new and returning members. Our orientation was extremely successful, with over 94 interested students. In this meeting we discussed some of our changes to our team, including our new grading system. We now are a graded class, with an hour requirement of 240 hours in total during the school year. We hope to continue to see the enthusiasm in our team members and aim to create both an educational and fun place for our team to flourish.

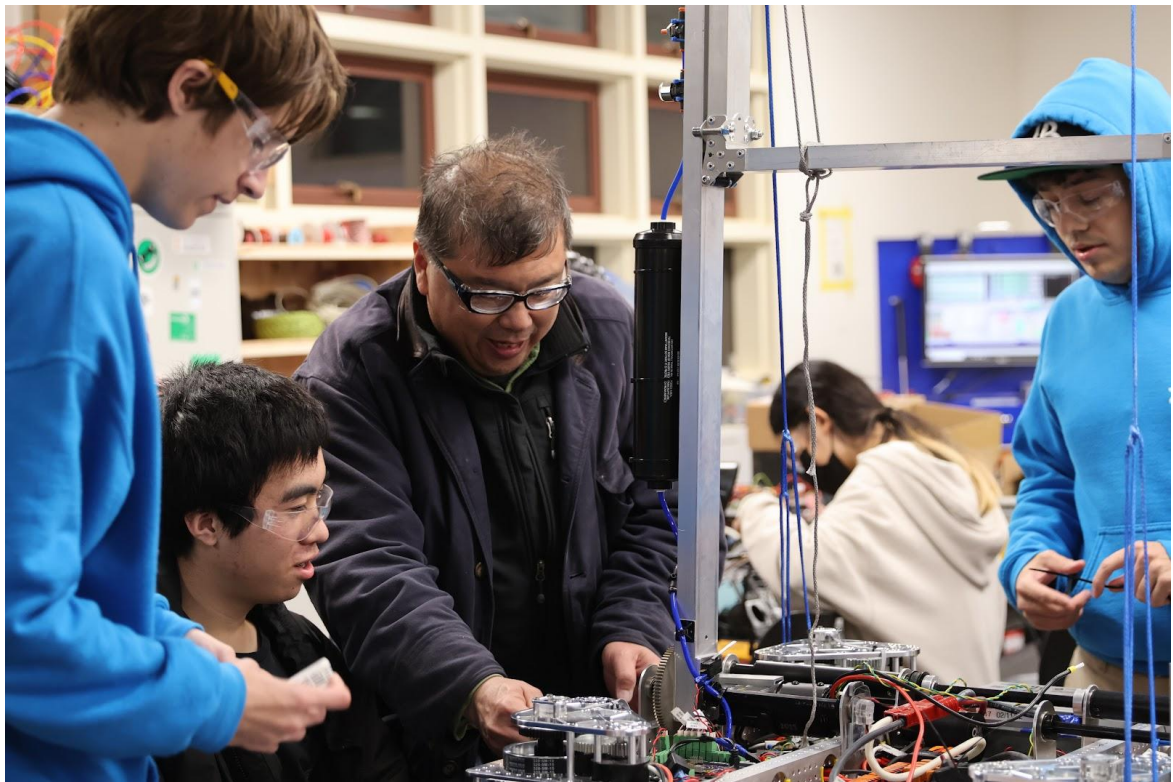
Along with our lunchtime orientation meeting, we also held a Parent Student Orientation. During this meeting, all subteams gave informational presentations and other team information was introduced. Each subteam introduced themselves and explained their role, as well as showing

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demonstrations such as our robots and other mechanics. Many students were interested because they had previous experiences in STEM, wanted to learn more about STEM, or wanted to participate and work in a team environment. During this meeting, we also explained our basic principles and rules, along with the various tools we use to keep our team organized. We hope that this orientation will help future members to better understand not only our subteams, but our team as a whole.

### **SoCal Showdown Planning**

For months now, our team has been looking forward to hosting our upcoming offseason competition called So-Cal Showdown, running from October 6th-8th. Together, we are hosting this competition with Teams 4201 and 687. We are all excited to get this competition up and running, but there's still lots to do before the competition kicks off in early October. Our team is volunteering members to help run the competition and our students will be helping with tasks such as scorekeeping, and queuing teams for matches. For this competition, we will be competing with both of our robots, Overtime and Atlas. We are looking forward to competing with other teams and learning valuable lessons from this event.





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## Subteam Logs

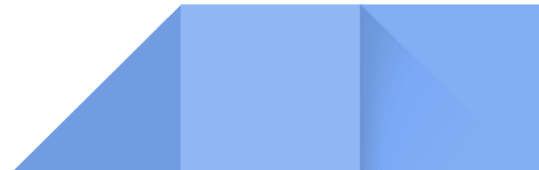
*A weekly update from each of Team 2637's individual subteams*

### **Systems:**

**Manufacturing:** Manufacturing has started with the adjustments and improvements to our 2 robots from last competition season: Atlas and Overtime. We have also been organizing the room alongside creating machine training for the incoming members. We look forward to meeting and training our newcomers!

**Mechanical Design:** Mechanical Design has worked on training and preparing for the preseason. In the summer, we selected our replacement for GrabCAD, our gracious sponsor Kenesto's software. We also worked on design training presentations and started our more experienced members on redesigning our second robot to take to SoCal Showdown, the competition we're co-hosting this fall.

**Programming:** Throughout this month, the Programming team has been actively engaged in a multitude of projects. These include the development of a Trajectory Planner, gathering data for the 1678 Advantage Kit, addressing issues with the Swerve Drive system, as well as debugging and enhancing our team's scouting tools, such as the Scouting App, DTF, and Database configuration. Additionally, we have dedicated time to finalizing and reviewing the training programs for both new members and those returning. The collective efforts of our team members on these endeavors will significantly enhance our accuracy and greatly improve our prospects for success in upcoming competitions.



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**Electronics & Pneumatics:** This month, Electronics & Pneumatics has begun preparing for the season. We were able to compile a template of season parts that can be used as a reference in future years. Electronics has also been working on cleaning up and polishing all of our wiring for our two robots that we will take to competition later this year.

**Business & Marketing:** The Business & Marketing subteam has been working on Purchase Requests and Requisitions for new parts to improve our robot and get ready for our offseason competition. We are organizing and implementing solutions for overall team operation. We have also been working on the creation of a presentation to show at our parent student orientation meeting, detailing the important role our subteam has within our team. In addition to this, Business & Marketing has also formed organizational systems which will help the team manage finances and forward-planning for the rest of the year.

**Outreach & Awards:** This month, Outreach & Awards has been busy preparing for the new FLL season and planning our STEM Development Courses. Not only are we leading two local FLL teams, two teams at Holbrook Indian School, and one team in Uganda, but we've also been planning activities for new Philippines STEM Development Courses, along with our laptop drive for Uganda.

**Safety:** This month, Safety has continued preparations for the arrival of new members and the official start of the FRC class. Certification presentations are being added upon, tests are being planned for each such training module, and the general safety presentation is being prepared and finalized to be presented in the near future. For the coming meetings, Safety will coordinate

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with Manufacturing to create hands-on tests for each machine with a certification module. The enhancement of Safety will be especially vital as new members start coming in.

**Strategy & Systems Design:** Strategy & Systems Design has been working on finalizing our ideal alliance strategy, along with working on creating concept of operation documents for our two robots. We are also working on creating robot concepts for our second robot. For our new and upcoming members, we have been creating and developing training.

## Upcoming Dates

### Team Meetings:

Wednesdays: 3:30pm-7:00pm

Saturdays: 9:00am-1:00pm

### Working Meetings:

Saturdays: 1:00pm-5:00pm

### SoCal Showdown:

10/06/2023-10/08/2023

[Check the calendar](#)

## Fun Robot Fact

### DID YOU KNOW?

For last year's competition, we competed with two robots, *Overtime* and *Atlas*. You can read more about them on our team website!

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## Our Sponsors

*To Whom We Are Extremely Grateful*

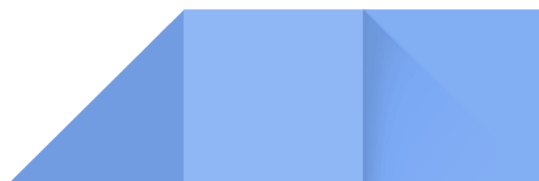
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Palos Verdes Peninsula High School

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