

# *Royal Robotics*

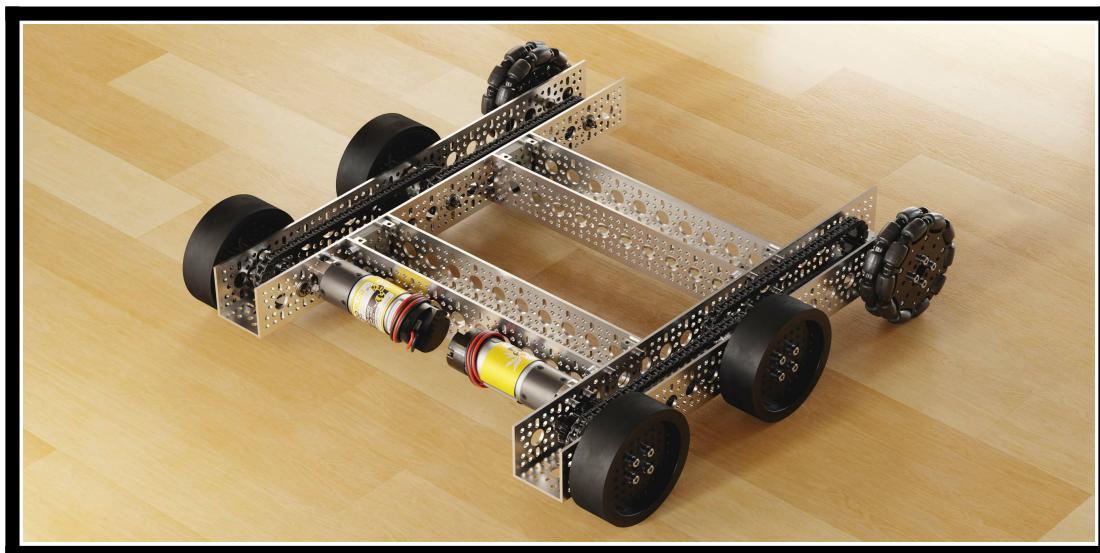
An FTC team from Hayward, California

## About

Royal Robotics is a (soon to-be registered) FTC team in Hayward, California. Started in March of 2022 at Leadership Public Schools – Hayward, we seek to build interest in STEM in our small school and city – and generally, have a good time with robotics! So, for the first time ever, Leadership Public Schools has a robotics team!

We are the second FTC team in Hayward.

Although we are not yet official registered, we currently have a FTC kit from GoBilda (courtesy of our school!) and a loaned RevRobotics Expansion Hub (courtesy of TechBrick from Maryland!).



*The robot we're building. You got to start somewhere! Image courtesy of GoBilda*

# Our Team

Our team is composed of 5 highly-motivated individuals! We're all passionate about STEM, and believe a more diverse population needs access to it. You can read more about us below!

**Sahil Sharma**



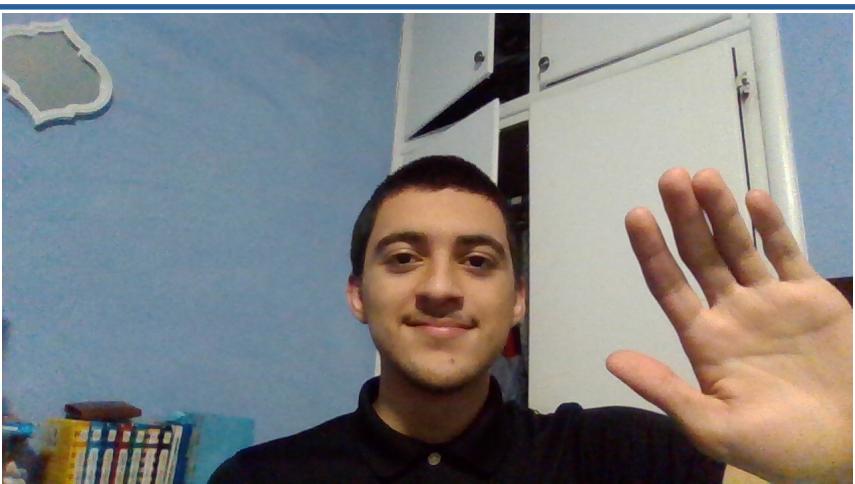
*Hi everyone! I am a rising junior at LPS Hayward. I enjoy competition math and programming, and anything STEM!  
- Sahil Sharma*

**Andrew Tran**



*went to the same middle school as sahil  
same grade level as sahil  
pretty much on the same level as sahil  
is in the track team,  
probably faster than sahil  
because he is not  
- Andrew Tran*

**Jose Vera**



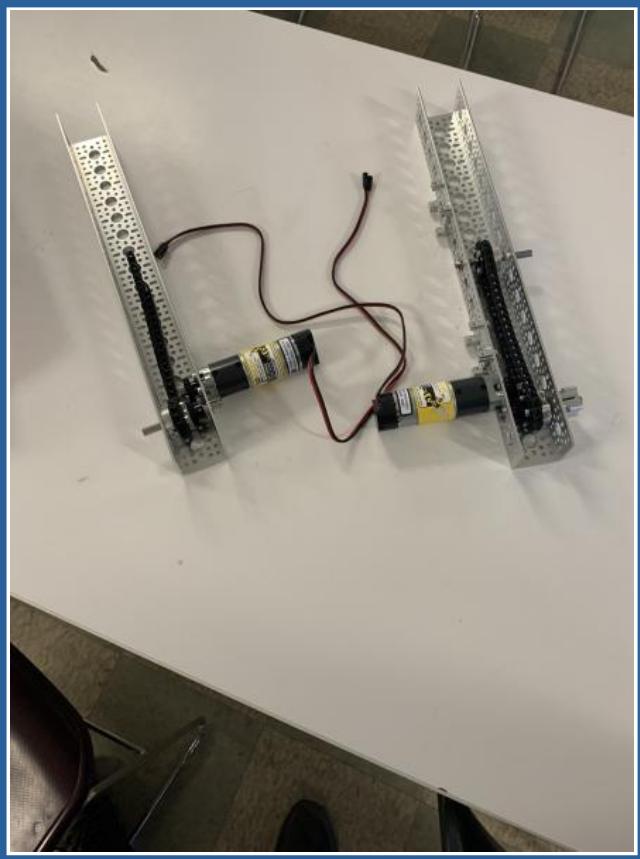
*"Hello, my name is Jose Vera,  
I'm part of the coding team  
building this robot, but I usually  
give some advice to the builders  
on where some parts go, it was  
a rough start, but now we're  
finally getting somewhere, and  
slowly approaching the part to  
be able to code the moving  
functions for the robot, our  
team may be small at the  
moment but we are looking  
forward to getting more people  
to join us in our journey"  
- Jose Vera*

**Shayan Chand**

**Caden Mendall**

# Gallery

Assorted pictures of our build! Stay tuned for more...



*Quite a ways to go with the chassis... those chain links take forever to assemble!*

06/08/2022

# Blog

Our blog posts! Stay tuned for more...

## How To Start an FTC Team Sahil Sharma, June 9<sup>th</sup> 2022

Starting an FTC team can seem like a daunting task. And it often is. Kits are expensive, fundraising can seem foreign, and it's easy to feel overwhelmed. We'll share our story here, in hopes that it will help others.

Perhaps the most important thing is to first take a look at FIRST's website:  
<https://www.firstinspires.org/robotics/ftc/start-a-team>

Again, it's understandable that all the information can feel overwhelming! The first thing you must do is *find interested people!* Having people to support and help you will make this a much easier operation. Try to form a small group with people you know well, as this allows for better communication and lets you get started quicker.

After that, you're going to want to look for grants to get registered. This brings us to a different point, ensure you start near the beginning of the school year! This is when all grants were available... If you start near the end of the year, like us, you're going to need on either your school to provide funding for a kit (as our school did), or you'll have to fundraise! Perhaps you can host a bake sale or some school event! Remember, schools sometimes have some allocated for STEM related activities, and don't be afraid to ask them for some funding!

Grant finder: <https://www.firstinspires.org/robotics/team-grants>

Currently, there is a rookie grant available. You'll need a mentor / coach for your team to be eligible for the grant. Typically, a mentor has robotics experience. However, this isn't always possible, so it's also acceptable if your mentor is just a teacher you know well from your school.

Now you have a mentor, a team, and hopefully some funding! The next step is to buy a kit... If you search online, you should find one! We got ours from GoBilda, for 700 dollars. Note that there are discounts if your team is based from a school, or if you officially registered your team! Registering your team costs 250 dollars.

**You're also going to need a control computer, to get it started. A RevRobotics Expansion Hub, plus two Android phones should work... Currently all Rev hubs are out of stock, so you'll need to be quick to purchase them with your funds when they come out.**

This is basically how far along we are in the process. Once we finish building the kit, we'll update this guide with information on how to start programming and setting up the wiring.

## Contact

Questions, comments, or concerns? Contact Sahil at:

[hy.sharma.sahil@leadps.org](mailto:hy.sharma.sahil@leadps.org)

Thank you!