

# About Us

609 Cougars has been doing FTC Robotics for 12 years and to this day, our team of experienced programmers and builders has never been stronger! Consisting of 7 builders and 4 programmers ranging from grades 8-12, we are constantly improving on our skills, always learning something everytime we meet. Varun, our captain of our team and mentor, has been of not only great assistance towards the mentoring of the newest members, but has been very productive during our meets.

## our Mentors

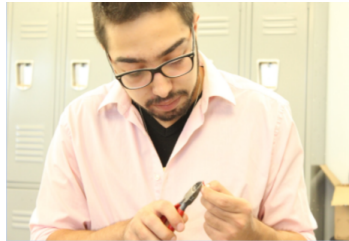
MR. WHITEHEAD



MR. G



MR. B



MR. AYDOS



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## contact us

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Mentors Email - [kwhitehead@cjcollegeprep.org](mailto:kwhitehead@cjcollegeprep.org)

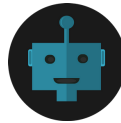
# Team 609





## OUTREACH

Vishal and Elias, which are both in charge of outreach have worked together with our schools outreach coordinator, Mrs. Cebe to reach out to our community and throughout the school. For example, we worked with our school's art department to design the side panel of our robot. As a team, we were privileged to go to Aloha math to teach young children about FIRST and robotics



## ROBOT DESIGN

Our current robot consists of two main mechanisms. The first is the claw mechanism. It uses a rack and pinion system to move the claw up and down. Attached to the rack and pinion are two servos that open and close the claw. The second mechanism allows us to pick up the relic and place it in either zone 2 or 3. We 3D printed a locking mechanism that hooks onto the relic. to reach to zone 2 or 3 we use a cascading lift with two stringing systems. One to push the lift out and one to bring it back.

## Team Members



### Builders:

Rohit  
Vishal  
Monish  
James  
Pablo  
Sneha



### Programmers:

Farhan  
Nihar  
Harshika  
Elias  
Varun



## SPONSORS

verizon<sup>✓</sup>

CANTOR



ESPEED  
Make it different



Morgan Stanley

*Pitgerald*

CREDIT SUISSE

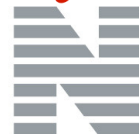


bgc

Johnson & Johnson



BNP PARIBAS



Newmark Grubb  
Knight Frank