

La Costa Canyon High School

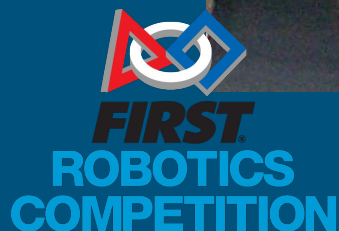
Robotics Team



FIRST (For Inspiration and Recognition of Science and Technology)



Founded in 1989 by Dean Kamen, a well known inventor and entrepreneur.



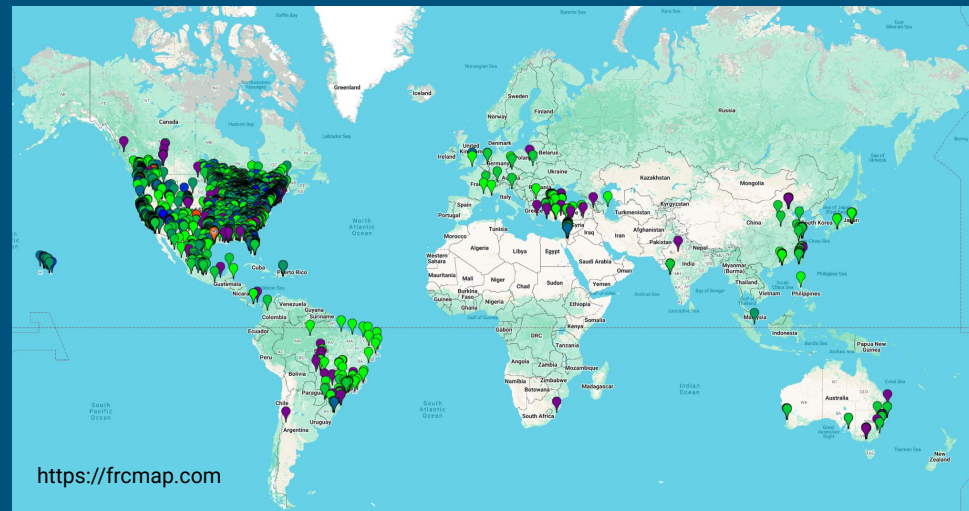
FIRST is comprised of 3 different programs

FIRST LEGO LEAGUE		FIRST TECH CHALLENGE		FIRST ROBOTICS COMPETITION	
GRADES	AGES	GRADES	AGES	GRADES	AGES
PreK-8	4-16	7-12	12-18	9-12	14-18

We are a FIRST Robotics Competition (FRC) Team, one of many!

2025 Season

110+ Countries
3693 Teams
2927 Teams in USA
290 Teams in CA



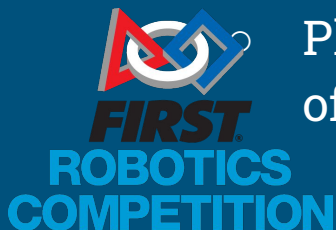
About FIRST Robotics Competition



MATT
FIRST Student

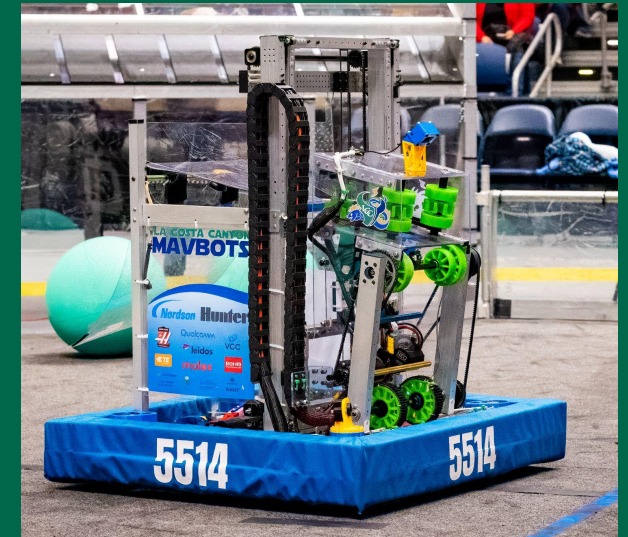
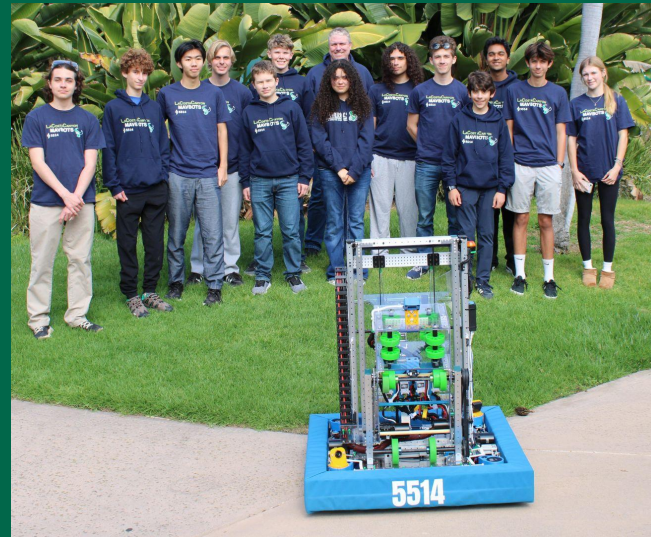
Team History

- Founded in 2014
- 2015 Season
 - Won the FRC Rookie Inspiration Award at San Diego Regional event
- 2021 Season
 - At Home Challenge event due to pandemic
- 2022, 2023 Seasons
 - No team
- 2024 Season
 - Restarted with 10 student team and re-established sponsorships.
 - Placed 31st out of 51 teams at San Diego Regional event.
 - Placed 10th out of 14 teams at offseason event at SD County Fair.



2025 Season

- Grew team roster to 17 students
- Added new “Drive Training” room (720)
- Competed in 2 offseason and 2 regional competitions:
 - Ventura Regional: Placed 12th out of 52 teams, Alliance 5 2nd Pick
 - San Diego Regional: Placed 17th out of 51 teams, Alliance 4 2nd Pick



Sponsor Banner (Last Season)



**FIRST
ROBOTICS
COMPETITION**

LA COSTA CANYON MAVBOTS

REEFSCAPE
PRESENTED BY **HAAS**

THANK YOU TO OUR 2025 SPONSORS

Hunter[®]

Qualcomm **molex**



FTS fine technology
solutions
Friends & Family
of LCC Robotics



**TEAM
5514**



San
Dieguito
UNION HIGH SCHOOL DISTRICT

Nordson

leidos **VCC**

WATERJETWEST
Viasat

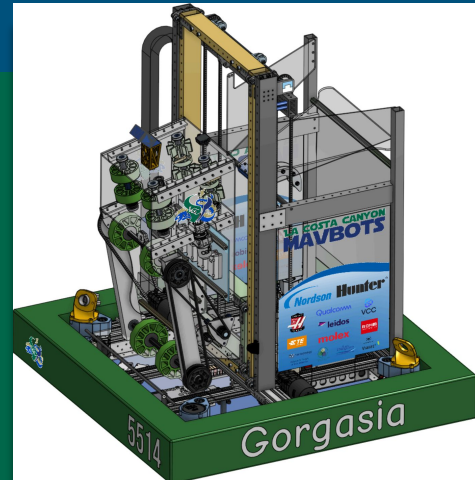


Team Roles and Activities



Robot Side

- Design
 - Prototyping
 - 3D Printing
 - Computer Aided Design (CAD)
- Mechanical
 - Manufacturing
 - Assembly
- Electrical
- Programming
 - Autonomous and Teleoperated Routines
- Drive Team



Logistic Side

- Business
 - Grant Writing
 - Sponsor Relations
 - Finances
- Marketing
 - Gear and Merchandise
 - Social Media
- Art and Graphic Design
- Outreach
 - Community Events
 - Volunteering
- Game Strategy and Scouting



- As a small team students have opportunity for multiple roles if interested.
- No prior experience needed, learn from students and mentors.
- Many online resources from FIRST and the FRC community.

Outreach - FLL Co-Host

WHAT:

FIRST Lego League
Qualifying & Regional Tournaments

WHEN:

Saturday, November 1, 2025 (QT)
Saturday, December 13, 2025 (Regional)

WHERE:

La Costa Canyon High School

- Second year hosting the FLL Tournament at LCC.
- Excellent opportunity for our team to **collaborate with SDA** and support the overall FIRST Robotics mission.



FIRST

ROBOTICS

COMPETITION

Engaging in community outreach
a key part of FIRST Robotics



We Need Parent Support!



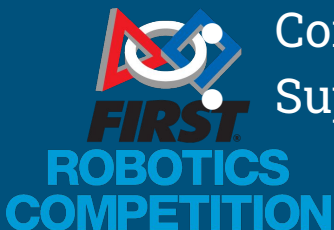
You can help with your time and expertise! Some examples are:

Software Development	Marketing and Social Media	School/Foundation Liaison
Design and CAD	Grant Writing and Fundraising	Classroom Supervision
Mechanical and Electrical	Budget and Part Procurement	Meal Organizer/Provider
Field Element Carpentry	Machine Shop Use/Safety	Carpool Organizer/Provider

Reach out to the mentors and email us at robotics@lccteams.org if you would like to support the team.

Robots are expensive

- Some companies (ex: Qualcomm) will specifically offer grant money to our team if their employees are a mentor.
 - Does your company match funds for charitable donations?
- Consider a tax-deductible donation via the “Donate” form at our website.
Support the team with meals during build season



Current Mentors and Volunteers



Mike Fine - MavBot Alumni Parent
Coach/Mentor - Teacher Sponsor

Travis Moench - MavBot Parent
Volunteer - Business

Janelle Fine - MavBot Alumni Parent
Mentor - Mechanical/Electrical

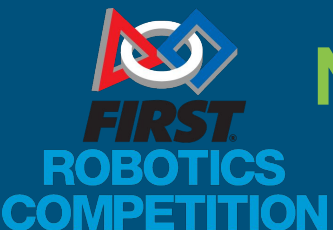
John Sprengelmeyer - MavBot Parent
Volunteer

Dave Santos - MavBot Alumni Parent
Coach/Mentor - Software/Electrical

Steve des Jardins - SDA Team Paradox 2102
Mentor - Advisor

Tomo O'Regan - MavBot Parent
Mentor - Mechanical

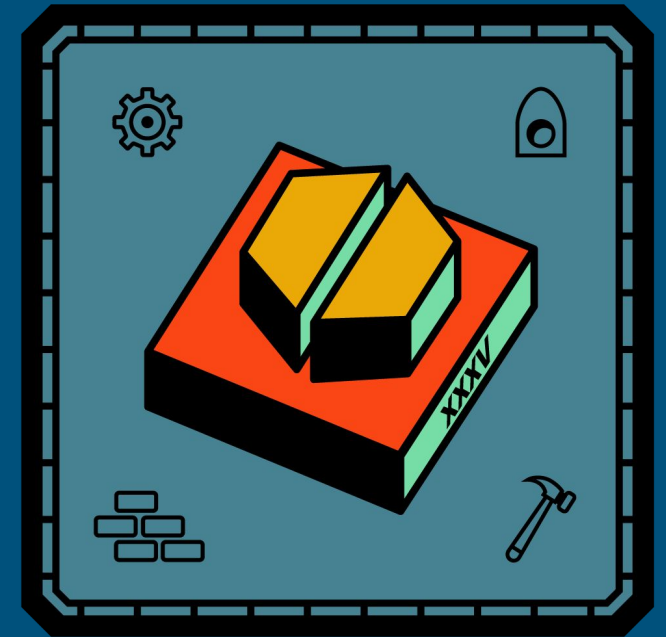
No technical knowledge or expertise needed to help out!
Mentors & volunteers of all types are needed



2026 *REBUILT* Season Timeline

PRESENTED BY *H/AAS*
Gene Haas Foundation

- 2025 - September-December
 - Team and competition registration, preparation, and new member ramp up, including Offseason Competition in October
- 2026 - January 10th
 - Kickoff, game details are announced (IT'S GO TIME!)
- 2026 - January-February
 - Build Season (7+ Weeks)
 - Busy time when team builds a new robot for a REBUILT-based competitions starting in March
 - Rooms 904 & 720
 - Meet on weekends (primarily)
- 2025 - March-April
 - Competitions held all-over US and World over 6 week span
 - Weeks 1-5: Compete in two SoCal District Events
 - Week 6: Compete in District Championship (If we advance)
- 2025 - April 29-May 2
 - World Championships in Houston, TX (If we advance)



REBUILT

PRESENTED BY *H/AAS*
Gene Haas Foundation



2025 (Last Season) Robot Reveal Video



2025 San Diego Regional - Qual 62



ROBOCUP
COMpetition

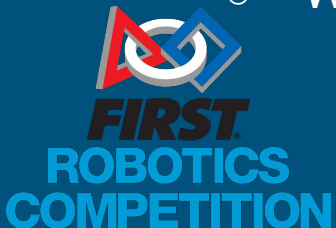
Runtime: ~3 minutes <https://www.youtube.com/watch?v=CJaEeITYHJc>

Sem

Interested in Joining?



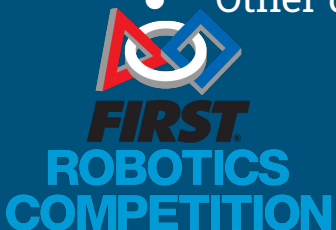
- Complete the “Sign Up” form at our website lccrobotics.org to get the process started.
- Subscribe to our Google calendar linked on our website.
 - The calendar will be keep up-to-date throughout the season.
- Follow us:
 - Instagram: lcc.mavbots
 - LinkedIn: lcc-mavbots
- Get involved this Fall:
 - Offseason competition, “Stay Classy Classic”, October 25-26 at Lincoln High School.
 - **Great opportunity for new members** to get up-to-speed before the new season starts.
 - Volunteer at the FLL Tournament @ LCC, Saturday, November 1st.
 - Mandatory team training (To be scheduled)
 - Weekend workshop sessions (To be scheduled)



Questions?



- Is there an email I can use to reach out to the team?
 - Yes. You can contact the mentors at robotics@lccteams.org
- How does the team regularly communicate?
 - Primarily Discord. New Students, Parents, Mentors, and Volunteers will receive an invite link to join our team's server.
- Are there any restrictions or limitations for being part of the team?
 - No, all are welcome, but we have a few ground rules:
 - Students must maintain grades of C or better.
 - Students must participate during build season to receive excused school absences for competition events.
- What is the expected student time commitment during build season?
 - Consider last year as example:
 - 563 hours logged, 17 students, 33 hours per student.
- Are there college scholarship opportunities for having been involved in FIRST?
 - Yes. Our MavBot alumni have taken advantage of this. Check out the FIRST website for more details.
- What is the largest single cost for the program?
 - \$6300, to register our FRC team and compete in two district events
- Other questions?



Go Mavs!