

INFO DECK - SEASON 2 - 2024-2025

# OAHU LONGNECKS ROBOTICS

ENGINEERING

CODING

COMMUNITY

# SCHEDULE & EXPECTATIONS

## FIRST SEASON OVERVIEW

**MAY**

Season registration opens

**AUGUST**

Season Launch

**OCTOBER-JUNE**

Local and regional festivals

**APRIL**

*FIRST* Championship

Competition season starts  
August 2024 at AMVETS in Ewa Beach

Practices are Thursdays 1:30 - 3:30  
*\*Attendance is required\**

Field Trips scheduled on Tuesdays

Guest Speakers will visit ahead of  
practices on Thursdays

Our big season event will be the  
Hawaii First Robotics State  
Championship & Expo on Sunday,  
December 15, 2024

### **CONDUCT:**

Everyone will demonstrate the FIRST Core Values, principles and team rules at all times. Parents and coaches, too!

### **FIELD TRIPS:**

We will coordinate site visits to University Labs and other professional facilities in the STEAM field such as NOAA and Waikiki Aquarium. Most will be scheduled on Tuesdays.

### **DEMOS:**

Students will showcase their work in front of various community organizations to practice for the next season.

### **PRACTICES:**

Let coach know ahead of time if you can't make practice, always be **ON TIME**, and always be **PREPARED**.

# COSTS | PRIOR TO FUNDRAISING EFFORTS

## Costs below are paid to Longnecks Robotics

- Membership Fees are due on **Thursday, August 1st**.
- All other costs are estimates and will be invoiced in October.
- Final invoiced amount subject to change.
- Fundraising efforts may greatly reduce expenses.

Expense covers 4 months of Robotics	DISCOVER (8 kids)	EXPLORE (6 kids)	CHALLENGE (10 kids)
<b>Member Fees</b>	\$50.00	\$50.00	\$50.00
<b>FIRST Registration</b>	\$29.13	\$24.17	\$37.40
<b>Tourney Registration</b>	\$0.00	\$10.00	\$18.00
<b>Supplies &amp; Materials</b>	\$10.00	\$10.00	\$10.00
<b>Operation Costs</b>	\$60.00	\$60.00	\$60.00
<b>COST PER CHILD</b>	<b>\$149.13</b>	<b>\$154.17</b>	<b>\$175.40</b>



SPIKE Essential \$334.95



SPIKE Prime \$399.95

## Costs for required equipment (NOT paid to Longnecks Robotics)

- Purchase at least one robotics kit per household, per division
- Sold by retailers; LEGO, FIRST, or used on FB marketplace, eBay, Mercari, etc.
- Discover: None required
- Explore: SPIKE Essential \$334.95
- Challenge: SPIKE Prime \$399.95

# FUNDRAISING CAMPAIGN

**BRING STEM to  
HOMESCHOOLED  
YOUTH**



**DONATE**

**\$ 686**  
RAISED



34% raised of 2,000 Goal

Time Remaining 1 Month

Total Supporters 8

Total Views 49

**We received a generous donation of \$500 in our first 48 hours of this campaign!**

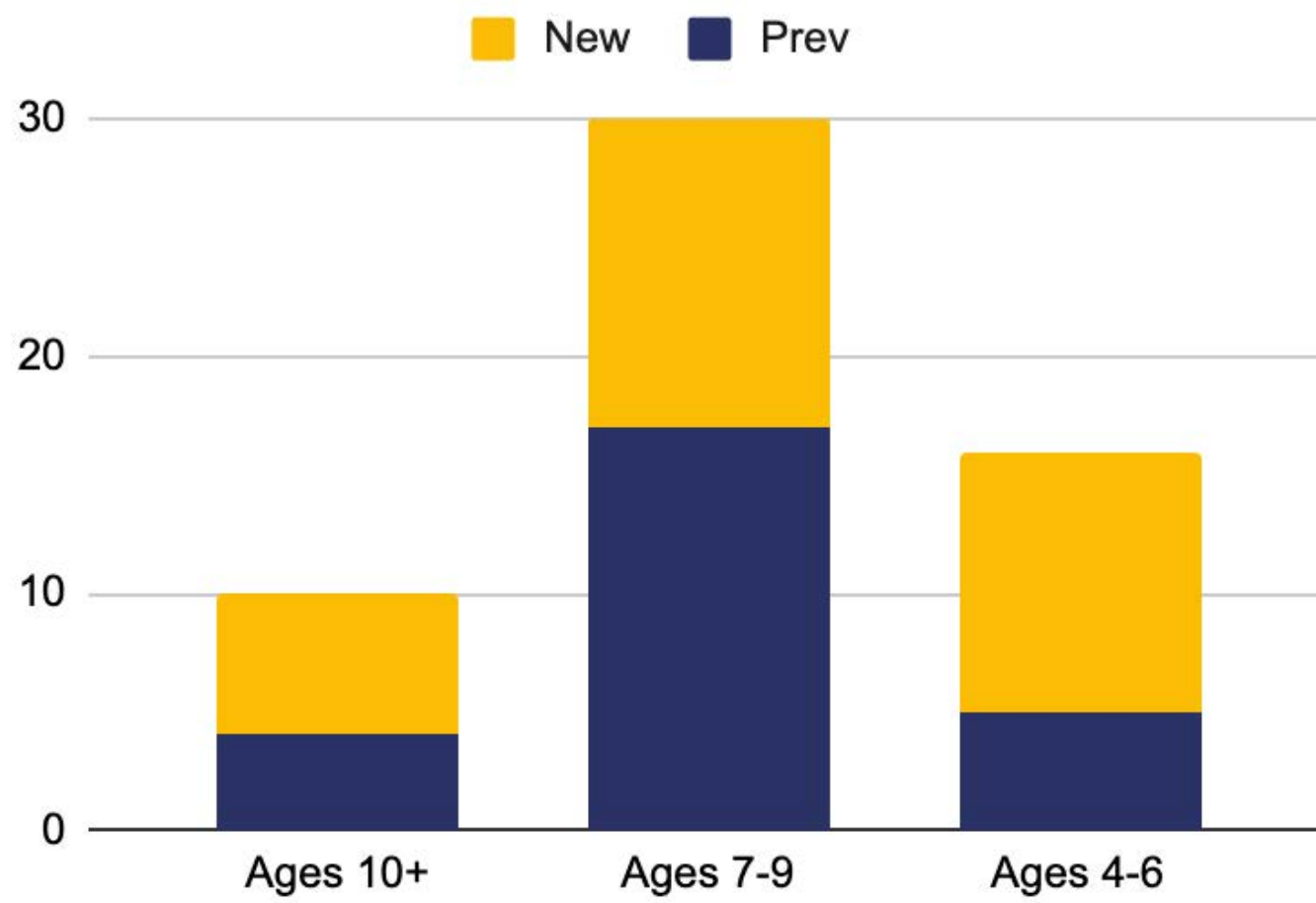
**Please consider sharing this fundraiser with friends and family. Every dollar helps enhance the program.**

**[www.go.rallyup.com/longnecksrobotics](http://www.go.rallyup.com/longnecksrobotics)**

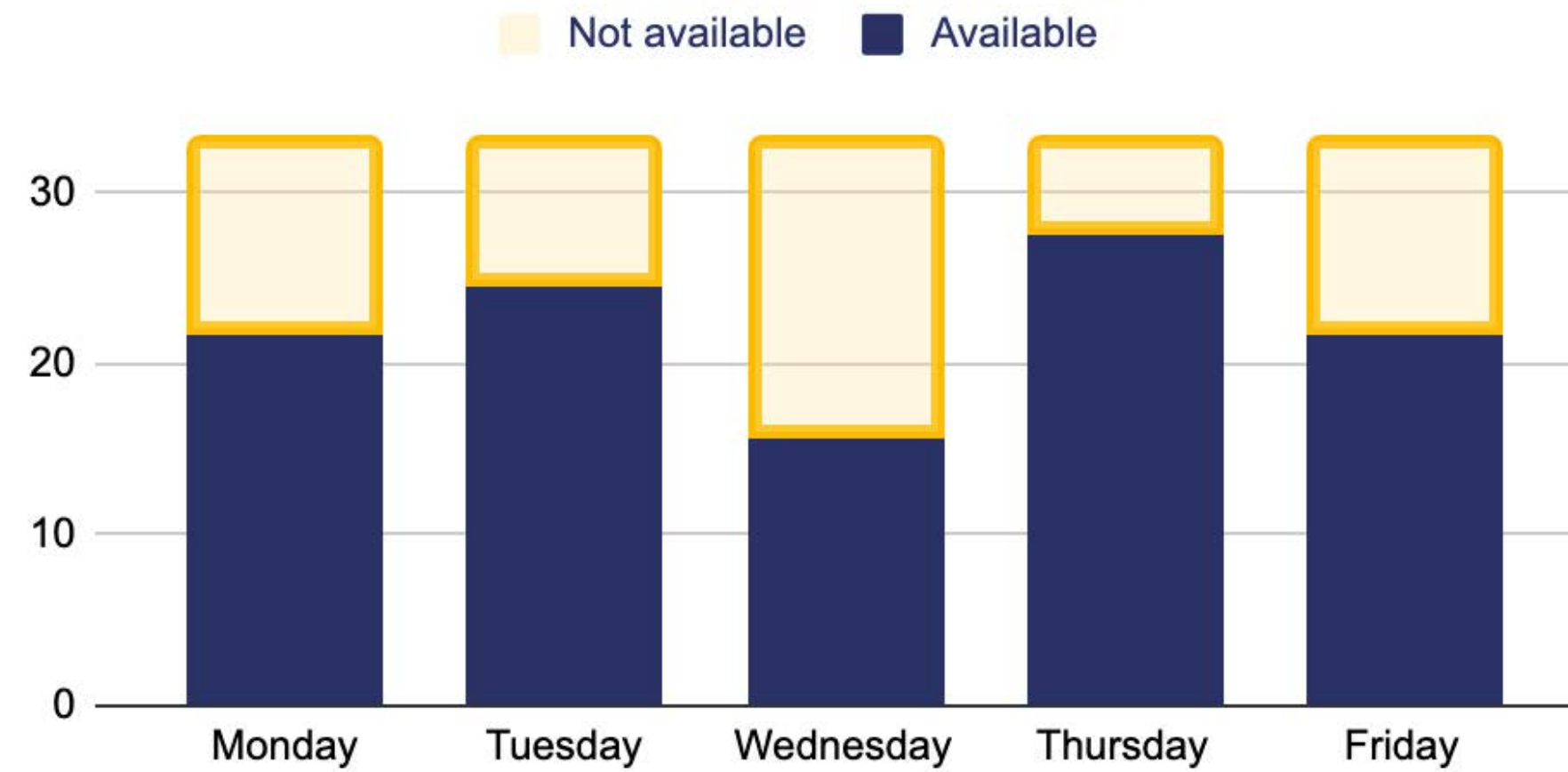
# INTEREST FORM RESULTS

**33 Families**  
**56 Students**  
**8 Teams**

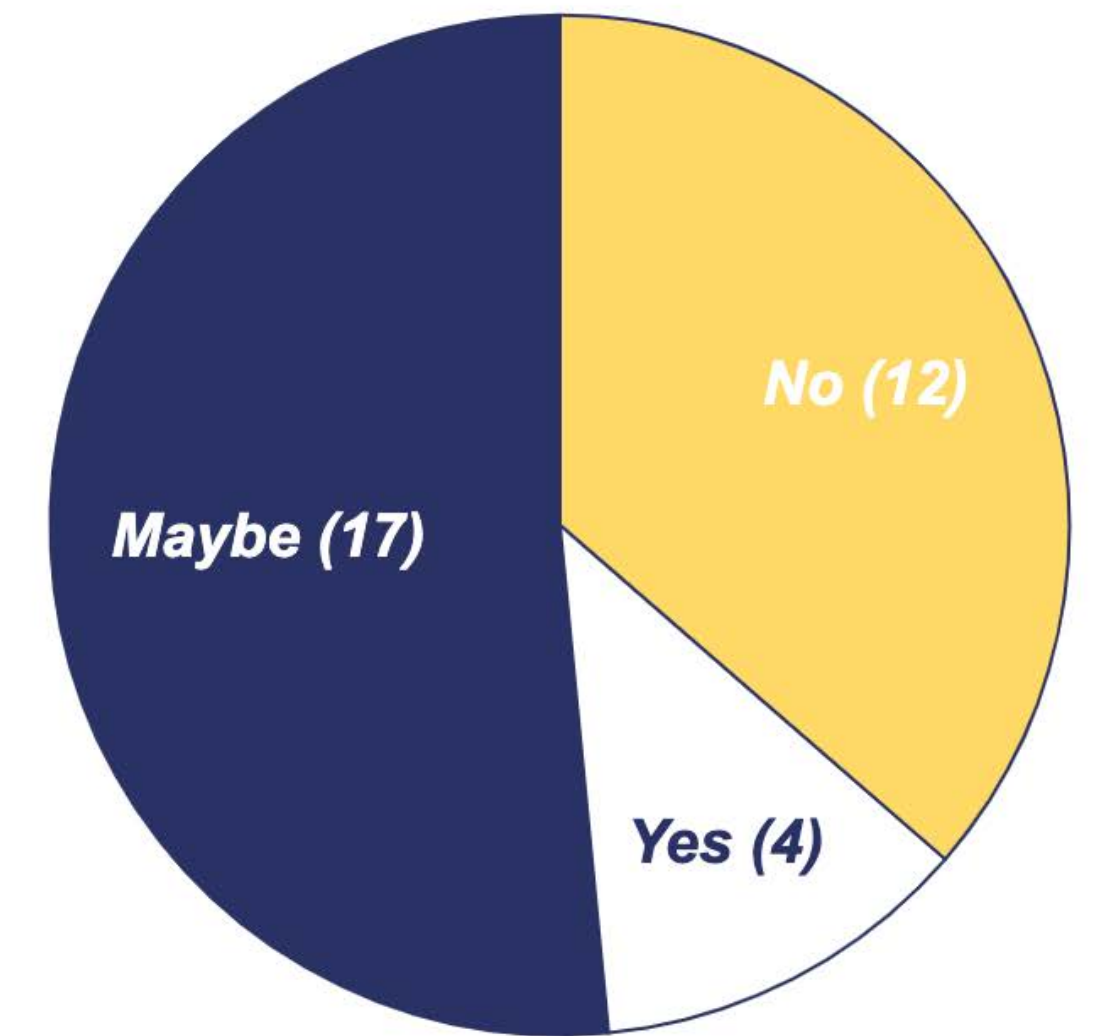
### Interested Students



### Weekday Availability



### Parent Coaches



# IS THIS PROGRAM FOR YOU?

## FAMILIES

After this meeting, you will receive a link to our “Registration Packet”.

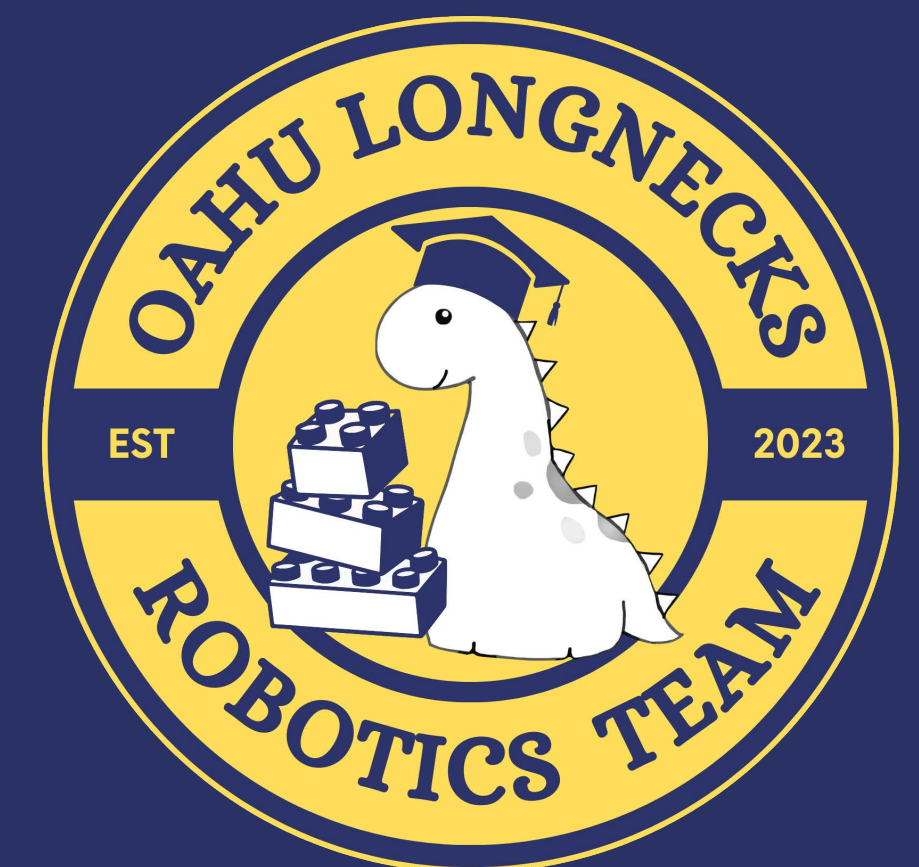
**DEADLINE TO JOIN/COACH: Friday, July 26th.**

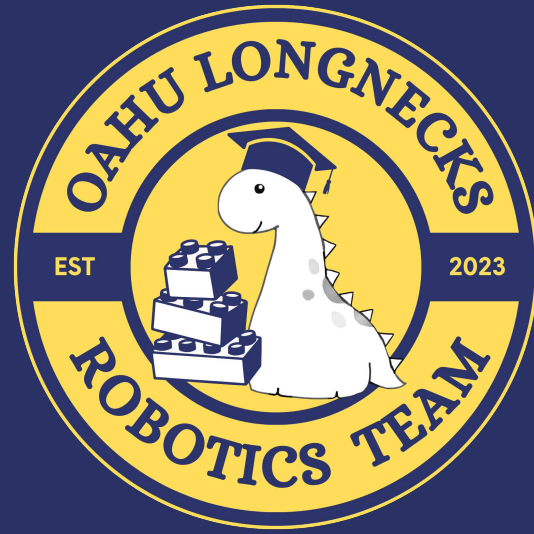
Invoices for Membership Fees will be emailed once forms are submitted

**DEADLINE TO PAY MEMBER FEES: Thursday, August 1st.**

## SPONSORS

We are actively accepting partnering sponsors! Companies that wish to invest in local STEM education, please request a sponsorship packet via email [info@longnecksrobotics.com](mailto:info@longnecksrobotics.com)

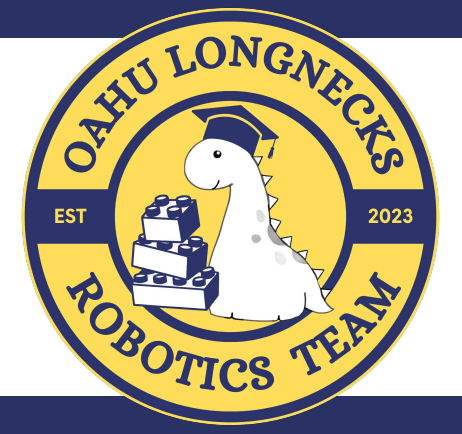




# ABOUT LONGNECKS ROBOTICS



# ABOUT | COACH SERENA



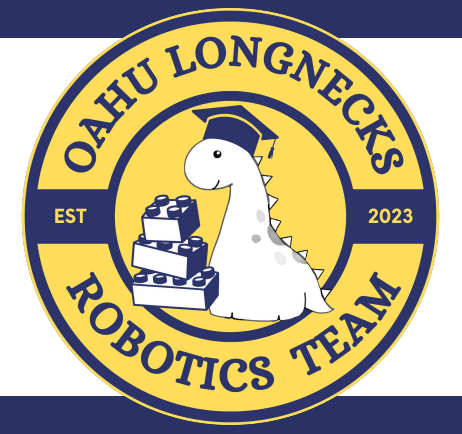
- Navy family, JBPHH
- Arrived in June '23
- Homeschool Family  
(Ark Academy Longnecks)
- Nolan, 8 yo son
- Logan, 5 yo daughter
- 3rd season of FLL
- 2nd year coaching

# FOUNDER & CHAIRMAN





# ABOUT | BOARD OF DIRECTORS



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**Erika Gormon**  
Vice Chair & Secretary



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**Alex Legg**  
Treasurer



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**Ashli Merchant**  
Advisory Committee Chair



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**Veronica Milotta**  
Board Member, Coach

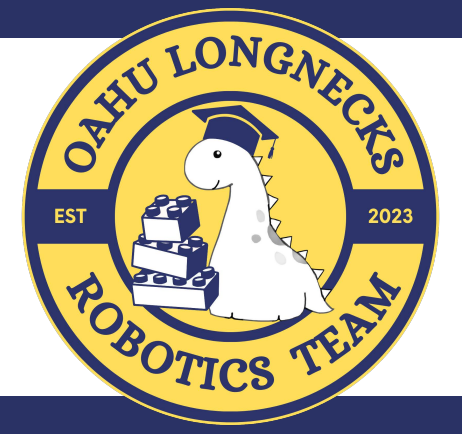
# PROGRAM DELIVERY

Oahu Longnecks Robotics is a 501(c)(3) non-profit that delivers the **FIRST Lego League** robotics competition program to young homeschoolers ages 4-12

In our off-season, we deliver a general robotics recreational program. The basics of engineering, coding, and robotics are taught through a talk-story series combined with interactive lessons from subject matter experts within the local STEM industry.



# MISSION STATEMENT



Expose young homeschoolers to **STEAM** through Robotics within a fun, collaborative community where *everyone* can thrive.

# GUIDING PRINCIPLES

Our Principles and Core Values align  
with those of *FIRST*:



## Gracious Professionalism®

Gracious Professionalism is part of the ethos of *FIRST*. It's a way of doing things that encourages high-quality work, emphasizes the value of others, and respects individuals and the community.

Through Gracious Professionalism, fierce competition and mutual gain coexist. Participants compete intensely while treating each other with respect and empathy. There is no trash talking, nor disingenuous platitudes. Knowledge, competition, and empathy are comfortably blended.

## Coopertition®

Coopertition fosters innovation by promoting unqualified kindness and respect in the face of intense competition. At *FIRST*, Coopertition means that teams help and cooperate with each other, even as they compete. It's about learning from teammates, teaching others, collaborating with mentors, managing and being managed. Coopertition embodies the spirit of competing while assisting and enabling others whenever possible.

# CORE VALUES



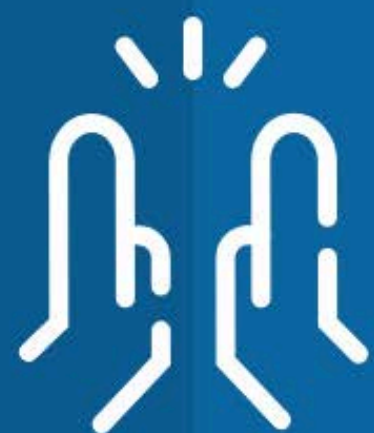
Discovery



Innovation



Impact



Inclusion

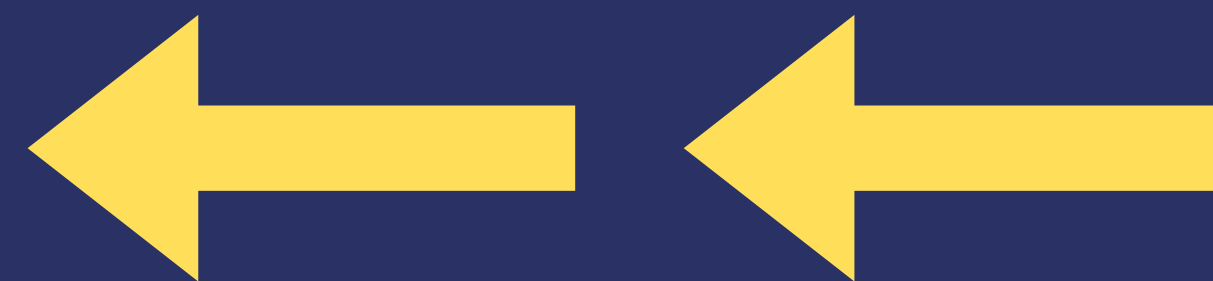


Teamwork

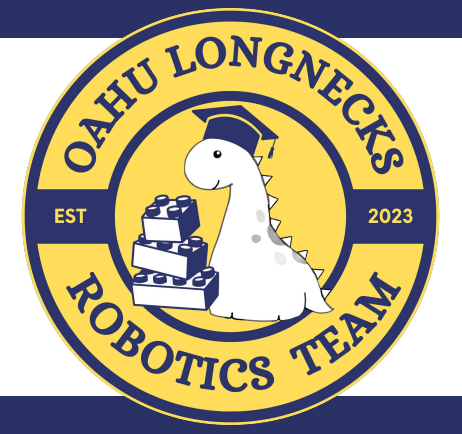


Fun

The FIRST<sup>®</sup> Core Values emphasize friendly sportsmanship, respect for the contributions of others, teamwork, learning, and community involvement and are part of our commitment to fostering, cultivating, and preserving a culture of equity, diversity, and inclusion. The FIRST Community expresses the FIRST philosophies of Gracious Professionalism<sup>®</sup> and Coopertition<sup>®</sup> through our Core Values.



# FLL SEASON 1 | 2023-2024



- 1** FLL Discover team
- 2** FLL Explore teams
- 4** Coaches
- 8** Homeschool families
- 18** Little Engineers



In our first season, we hit the ground running and registered three teams for *FIRST* Lego League (FLL). Ages for these teams range from **4-12 years old**.

# TEAMS | DISCOVER AGES 4 - 6

Discover children are introduced to the fundamentals of STEM while working together to solve fun challenges and building models using LEGO® DUPLO® bricks.

Many of our Discover students are younger siblings of our Explore students, which creates a great family environment.



# TEAMS | DISCOVER AGES 4 - 6

The Discover Team wrapped up their season with a fun, exciting festival where they showcased what they learned for friends and family.

After the Discover showcase, our entire team was awarded with their hard-earned medals and FLL certificates.



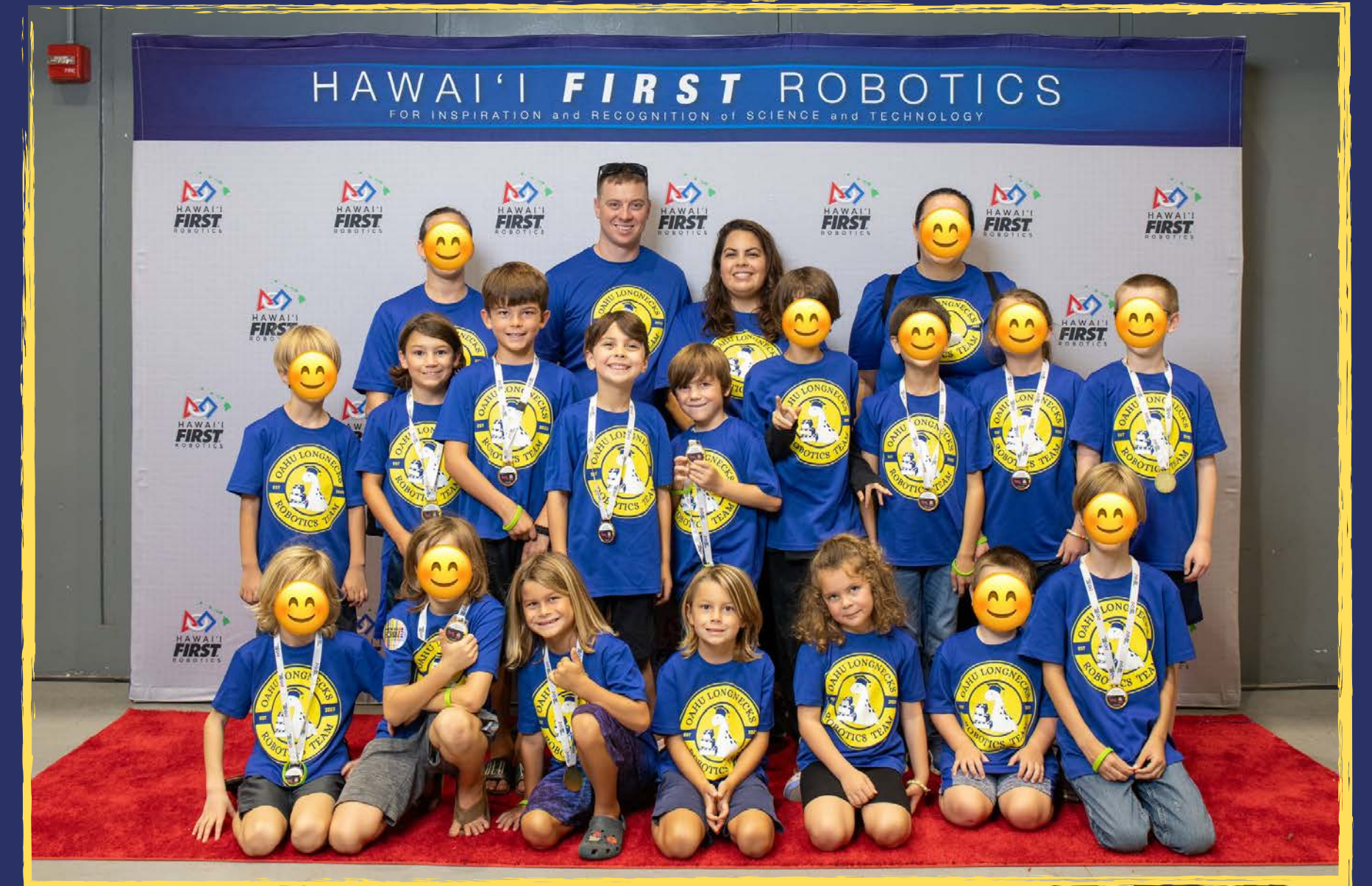


# TEAMS | EXPLORE AGES 7-9

Our *FIRST* regional Program Delivery Partner is [Hawaii First Robotics](#). HFR hosts all tournaments and expositions for the State of Hawaii.

## AWARDS:

Both of our Explore teams made their debut at the December 2nd Expo, bringing home a “*Coding Award*”, a “*Poster Award*” and a lot of inspiration!



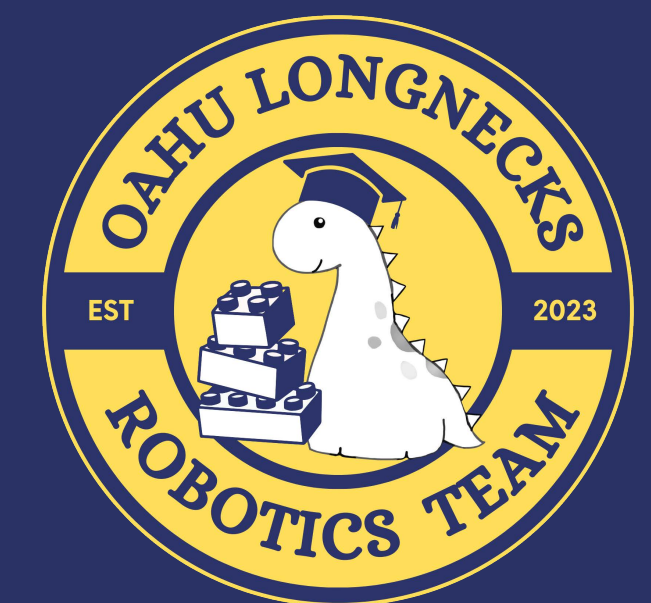
# TEAMS | CHALLENGE AGES 9-12

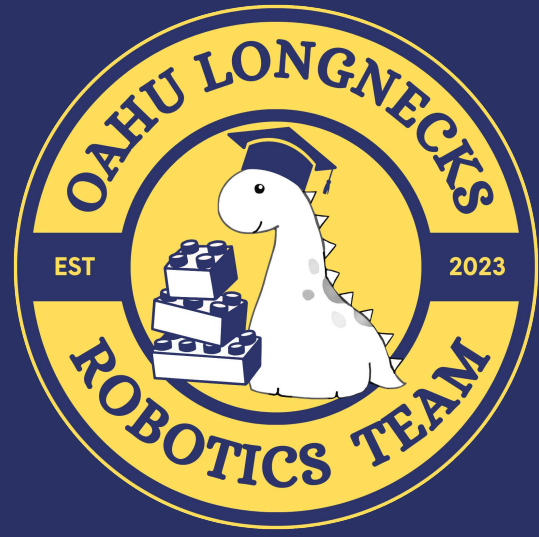
This season we are excited to register our first ever CHALLENGE team!

Once students are ready to move into a competitive setting, they join Challenge and apply their STEM skills combined with critical thinking to work with a team, build a robot, and compete in an exciting, mission-based robotics game.

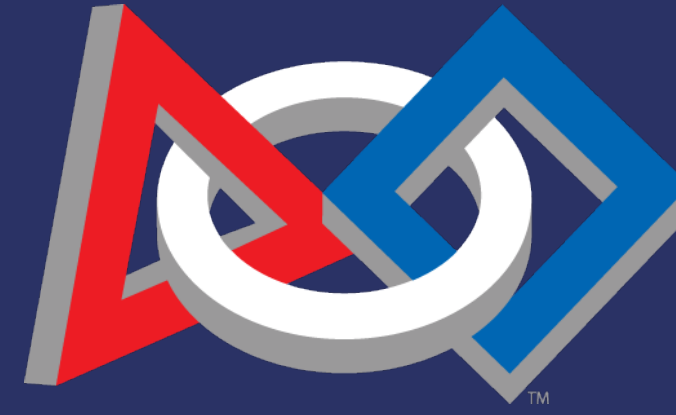


# RESEARCH FIELD TRIPS & ACTIVITIES





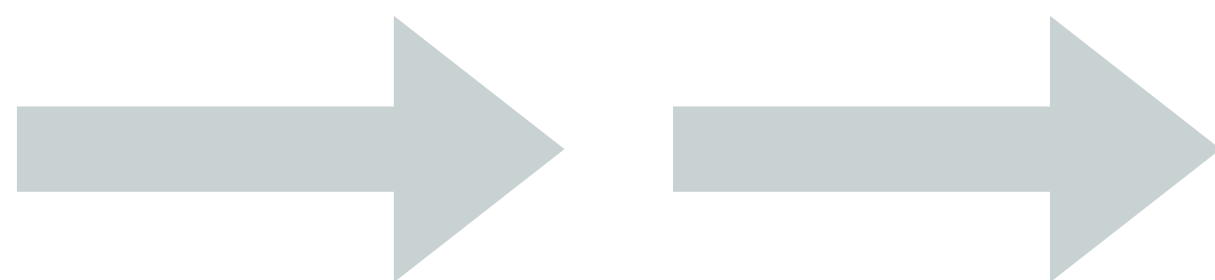
# ABOUT FIRST



# WHAT IS “FIRST”?

FOR INSPIRATION & RECOGNITION OF SCIENCE & TECHNOLOGY

**FIRST** is a global organization that delivers a robotics “competition” season to students across three programs based on age or grade level.



## ***FIRST is More Than Robots®***

Founded in 1989 by inventor Dean Kamen, *FIRST®* (For Inspiration and Recognition of Science and Technology) is a global nonprofit (501(c)(3)) organization that prepares young people for the future through a suite of inclusive, team-based robotics programs for ages 4-18 (PreK-12). Their programs are suitable for schools or structured afterschool activities and receive support from a vast network of volunteers, educators, and sponsor/donors, including over 200 Fortune 500 companies.

Because their programs are *More Than Robots®*, *FIRST* participants are guided by a signature set of Core Values to conduct research, fundraise, design, build, and showcase their achievements. Their thrilling, sports-like challenges build self-confidence and collaborative problem-solving skills and have a proven and lasting impact on STEM learning and interest. Participants and alumni gain access to education and career discovery opportunities, connections to exclusive scholarships and employers, and a place in the *FIRST* community for life.

# FIRST PROGRAMS



**Ages 4-16 | Grades PreK-8**

Students engage in hands-on STEM experiences, building habits of learning, confidence, and teamwork skills along the way.



**Ages 12-18 | Grades 7-12**

Teams design, build, and program robots, develop strategy, and engage in thrilling, head-to-head competition.



**Ages 14-18 | Grades 9-12**

Teams compete with 125-pound robots, combining the excitement of sport with the rigors of science and technology.

Children can grow with *FIRST* from PreK thru High School. Currently, Longnecks serves only *FIRST* Lego League, Ages 4 - 12.

# FIRST LEGO LEAGUE | DIVISIONS

FIRST  
LEGO  
LEAGUE

DISCOVER

AGES  
4-6



This playful introductory STEM program ignites young students' natural curiosity and builds their habits of learning with hands-on activities in the classroom and at home using LEGO® DUPLO® bricks.

FIRST  
LEGO  
LEAGUE

EXPLORE

AGES  
6-10



In Explore, teams of students ages 6-10 focus on the fundamentals of engineering as they explore real-world problems, learn to design, and code, and create unique solutions made with LEGO bricks and powered by LEGO® Education SPIKE Essential.

FIRST  
LEGO  
LEAGUE

CHALLENGE

AGES  
9-16



Friendly competition is at the heart of Challenge, as teams of students ages 9-16\* engage in research, problem-solving, coding, and engineering - building and programming a LEGO robot that navigates the missions of a robot game.

VISIT THE FIRST WEBSITE TO LEARN MORE ABOUT THEIR MISSION: <https://www.firstlegoleague.org/>

# QUESTIONS?

## LONGNECKS CONTACT INFO

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209-598-8083 (call or text)

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