Coach Resources

Leslie Cruse, Meredith Hale, Emily Bruning

WELCOME

COACH RESOURCES

Leslie Cruse, Meredith Hale and Emily Bruning

2022 REC FOUNDATION COACH SUMMIT

BEFORE WE BEGIN

BEST PRACTICES

This is for YOU - the Coaches. Please ask questions when you have them.

Utilize the Chat
Share Pro Tips

Take Breaks

Ask Questions in the Chat

Be Respectful

YOUR PRESENTERS

Leslie Cruse

Team Engagement Manager
AL, GA, TN AND KY

Volunteer for VEX Robotics tournaments

Certified VEX Educator in VEX 123, VEX GO, VEX IQ, VEX V5, and CS with VEXcode VR.

6 years with the REC Foundation

Team Engagement Manager for AL, GA, KY & TN

Teacher Training Manager

Volunteer Preference: Queen of Queuing!

leslie_cruse@roboticseducation.org

YOUR PRESENTERS

Meredith Hale

Team Engagement Manager
Nevada & Southern California

Has more than 20 years of experience working with teachers, programming, and curriculum through museum education, libraries, and schools

Really loves to help people - ask me anytime!

Is a lifelong maker, artist, tinkerer, and dog person

Likes coding, but LOVES building

Volunteer Preference: Emcee!

meredith_hale@roboticseducation.org

Emily Bruning

Team Engagement Manager
Indiana, Ohio, & West Virginia

Has more than 12 years of experience in the field of education as a classroom teacher and State Department of Education Specialist

Prior VIQC coach and event partner

Loves building, iterating, designing, and perfecting the engineering notebook

Loves baking, hiking, and parenting

Volunteer Preference: Queuing

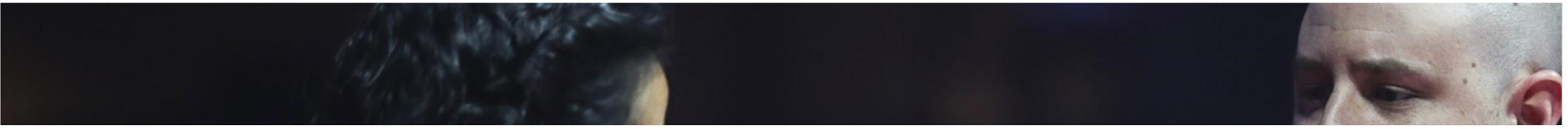
emily_bruning@roboticseducation.org

VEX PD+

REC Foundation Knowledge Base

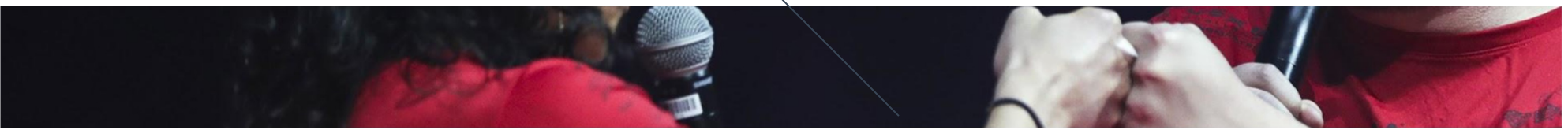
VEX Robotics STEM Library

Downloads & Mobile Apps



Certifications

Support Staff



STEM Labs

Websites

Team Guide

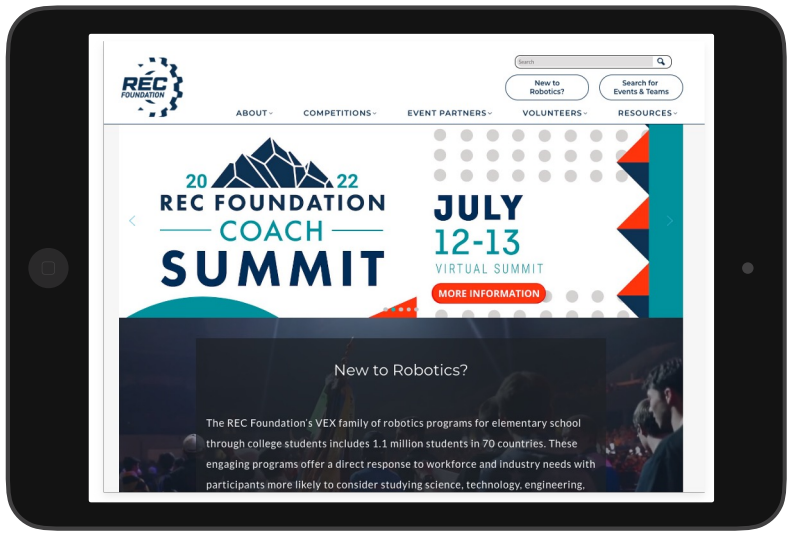
VEXcode

Virtual Skills

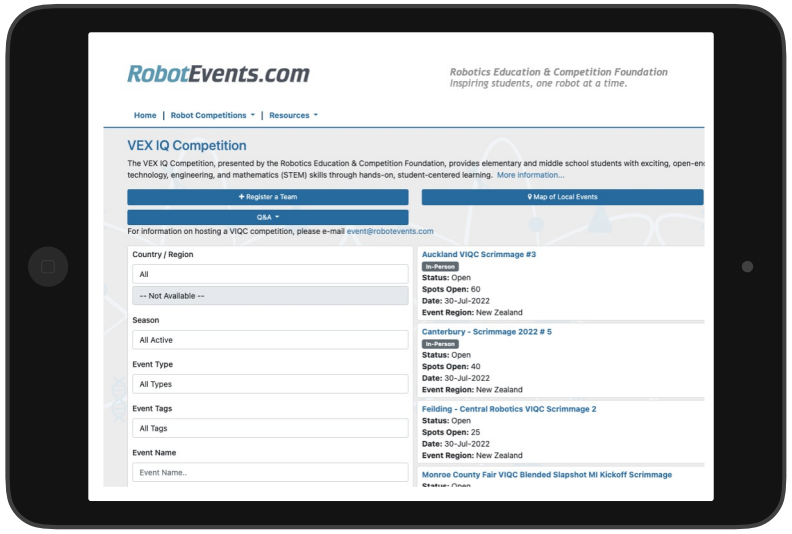
VEX Herobot

WEBSITES

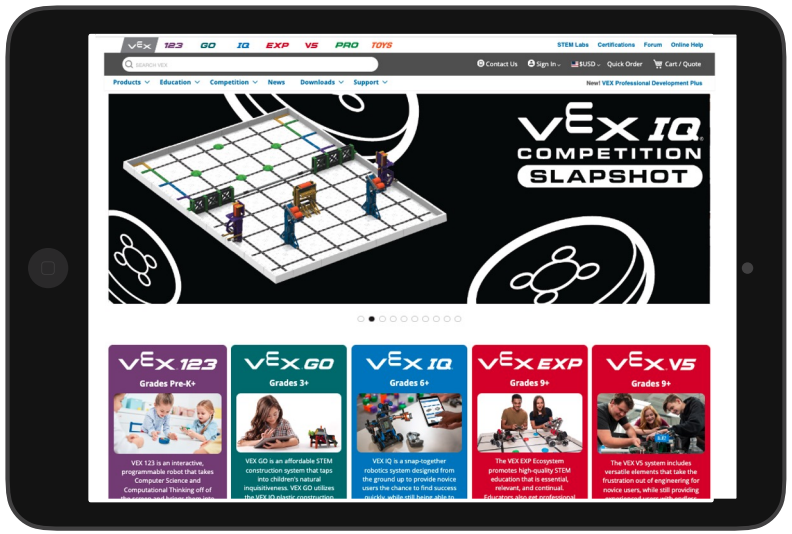
There are 3 websites you will want to bookmark for easy access.



roboticseducation.org



robotevents.com



vexrobotics.com

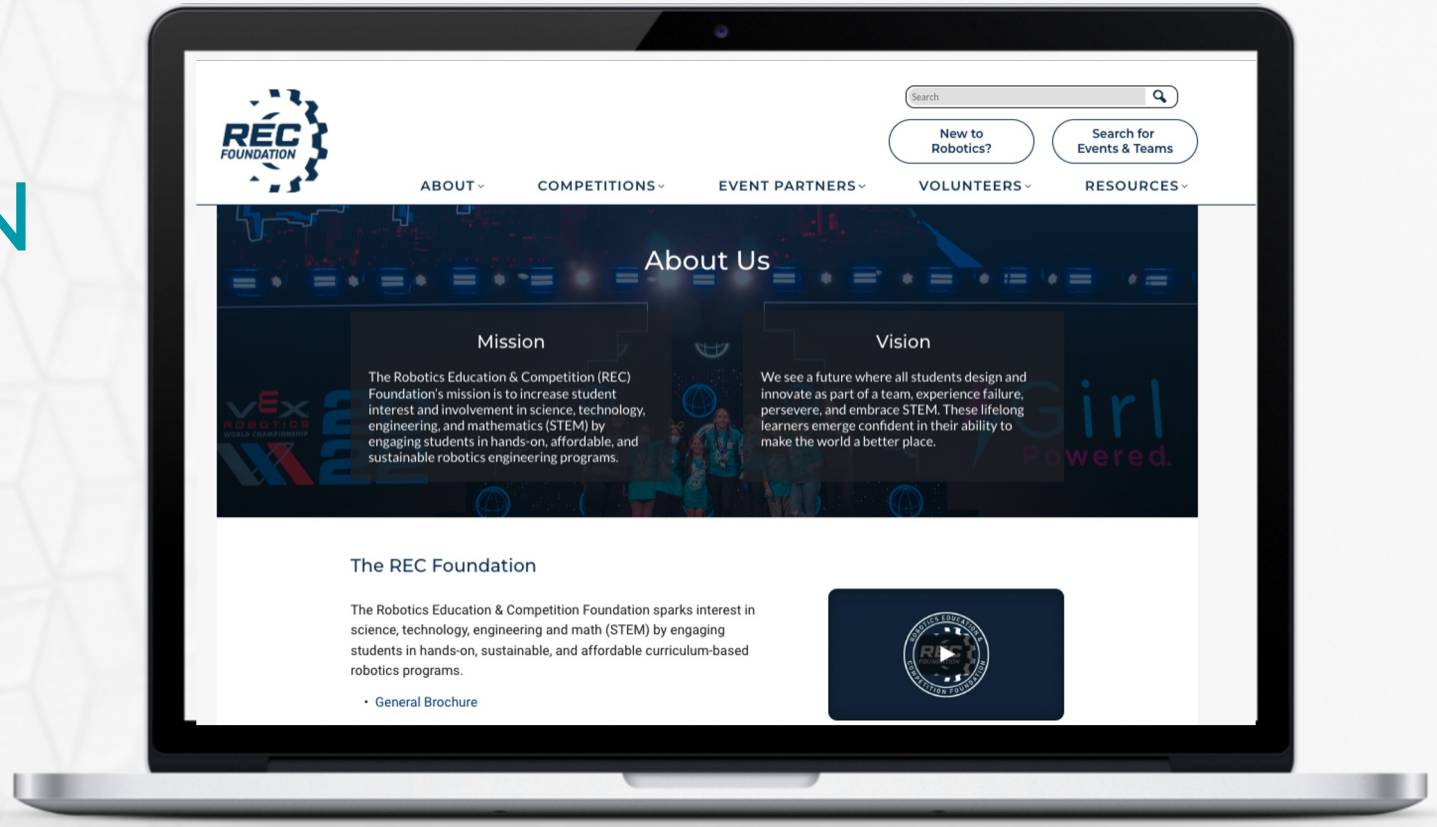
REC FOUNDATION

https://www.roboticseducation.org/

Competition Teams

Event Partners

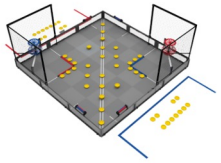
Volunteer Information



COMPETITION INFORMATION

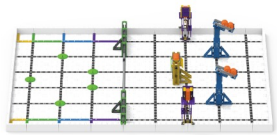
- Game Manuals
- Team Guide & Event Partner Guides
- Team Registration
- Student-Centered Policy and Code of Conduct
- Design Notebook Samples
- Participaction Release Forms
- and More!

VEX ROBOTICS COMPETITION SPIN UP



Game Resources | Team Guide | Event Partner Downloads
Register a Team | Code of Conduct | Student-Centered Policy
Participant Release Forms | Design Notebook | Official App
VEX Competition History | VRC Forum

VEX IQ COMPETITION SLAPSHOT



Game Resources | Team Guide | Live Remote Tournaments
Event Partner Downloads | Register a Team | Code of Conduct
Student-Centered Policy | Participant Release Form | Design Notebook
Official App | VEX Competition History | VIQC Forum

2021-2022 Challenge: DownDraft 2

RADC DownDraft2 is played on a 28'x28' field. Two (2) Alliances - one (1) "red" and one (1) "blue" - composed of two (2) Teams each, compete in 3-minute matches. The object of the game is to attain a higher score than the opposing alliance by scoring small and large balls in corner and floor goals and landing drones in the landing zone at the end of the match.

Teams also compete in the Programming Skills Challenge where one drone takes to the sky to score as many points as possible through programming.

Game Manual | Register a Team | Game Resources | Team Resources
Event Resources | Judge & Volunteer Resources | Parrot Mambo Resources | Additional Resources

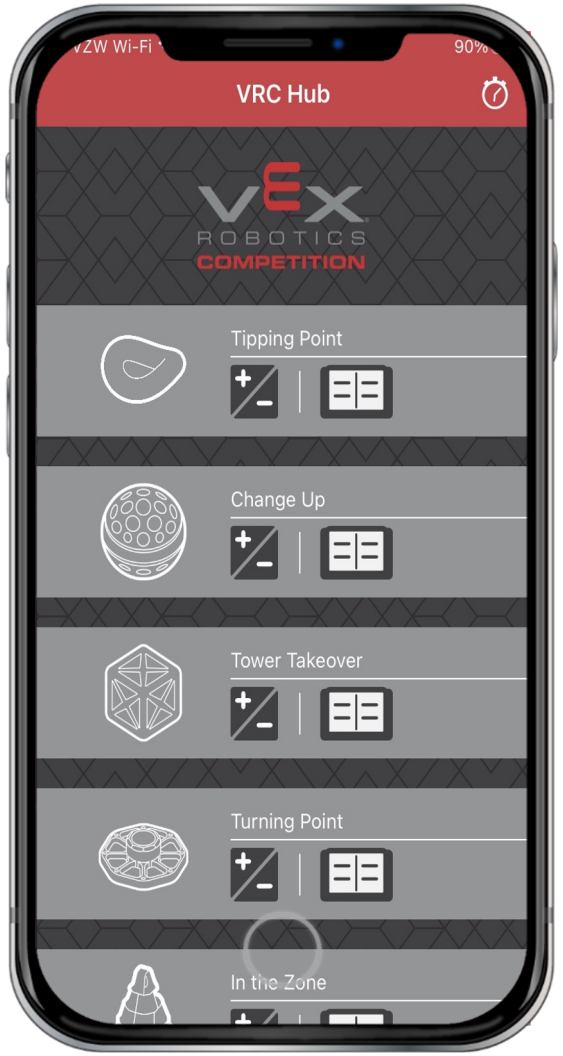
REC FOUNDATION KNOWLEDGE BASE

https://kb.roboticseducation.org/hc/en-us

REC Foundation Knowledge Base is a library of resource information for coaches, event partners, volunteers, and parents. This is the place to find anything from running a team, to hosting your first event and how to prepare your volunteers!

MOBILE APP LIBRARY

https://www.roboticseducation.org/mobile-app-library/



The VRC and VIQC Apps are the ideal competition companions for teams, spectators and event partners. They include:

- Searchable, easy to use, official game manual.
- Calculator to keep score for the current game.
- Timer to run your own practice matches (with official game sounds).

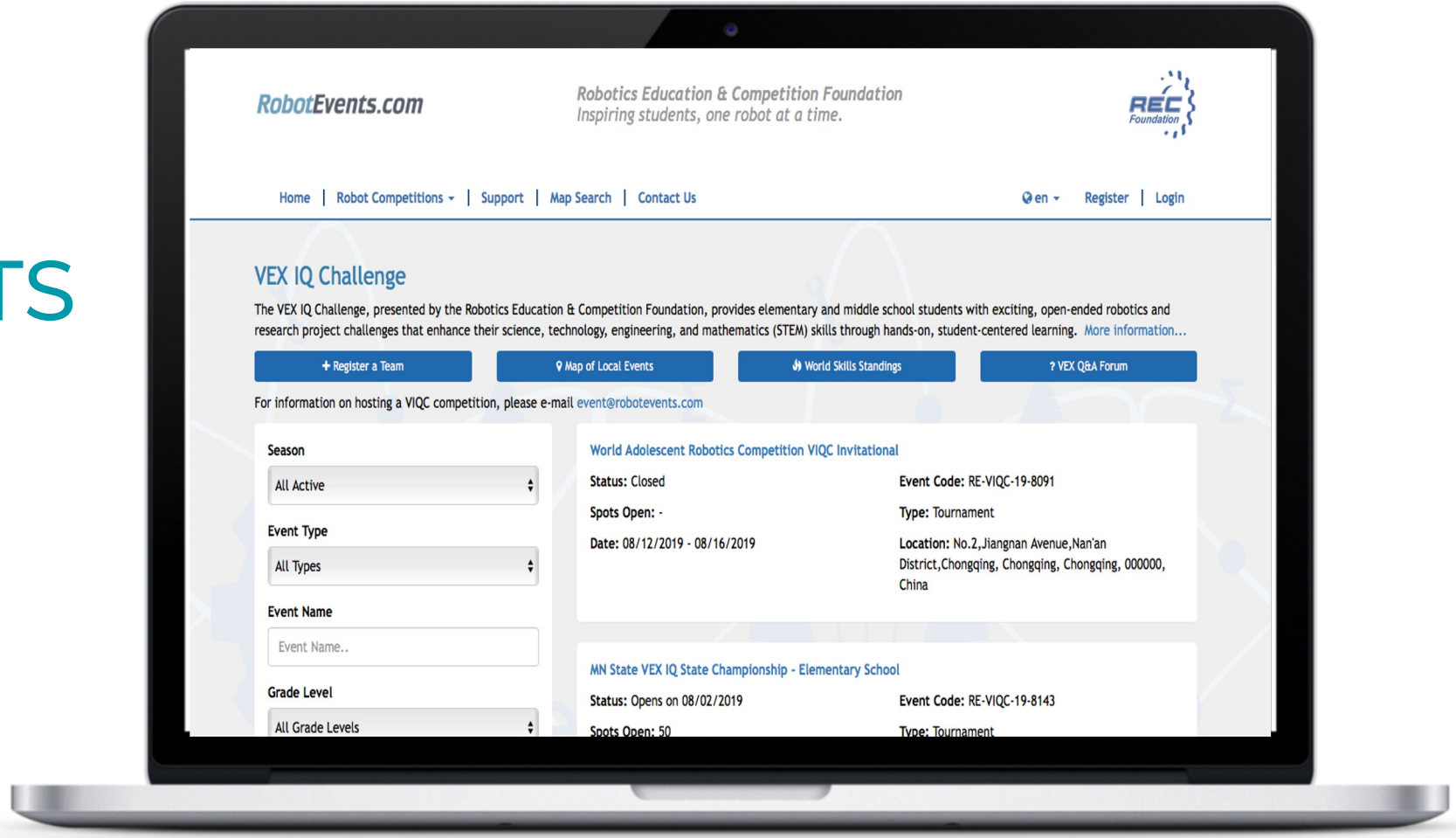
VEX Tournament Manager Mobile app can be used at scrimmages and tournaments. Referees can submit match scores from their devices

VEX via allows you to follow the progress and results at local competitions.

ROBOTEVENTS

https://www.robotevents.com

Register Teams
Register for Events
Official Q&A Forums



SUPPORT STAFF

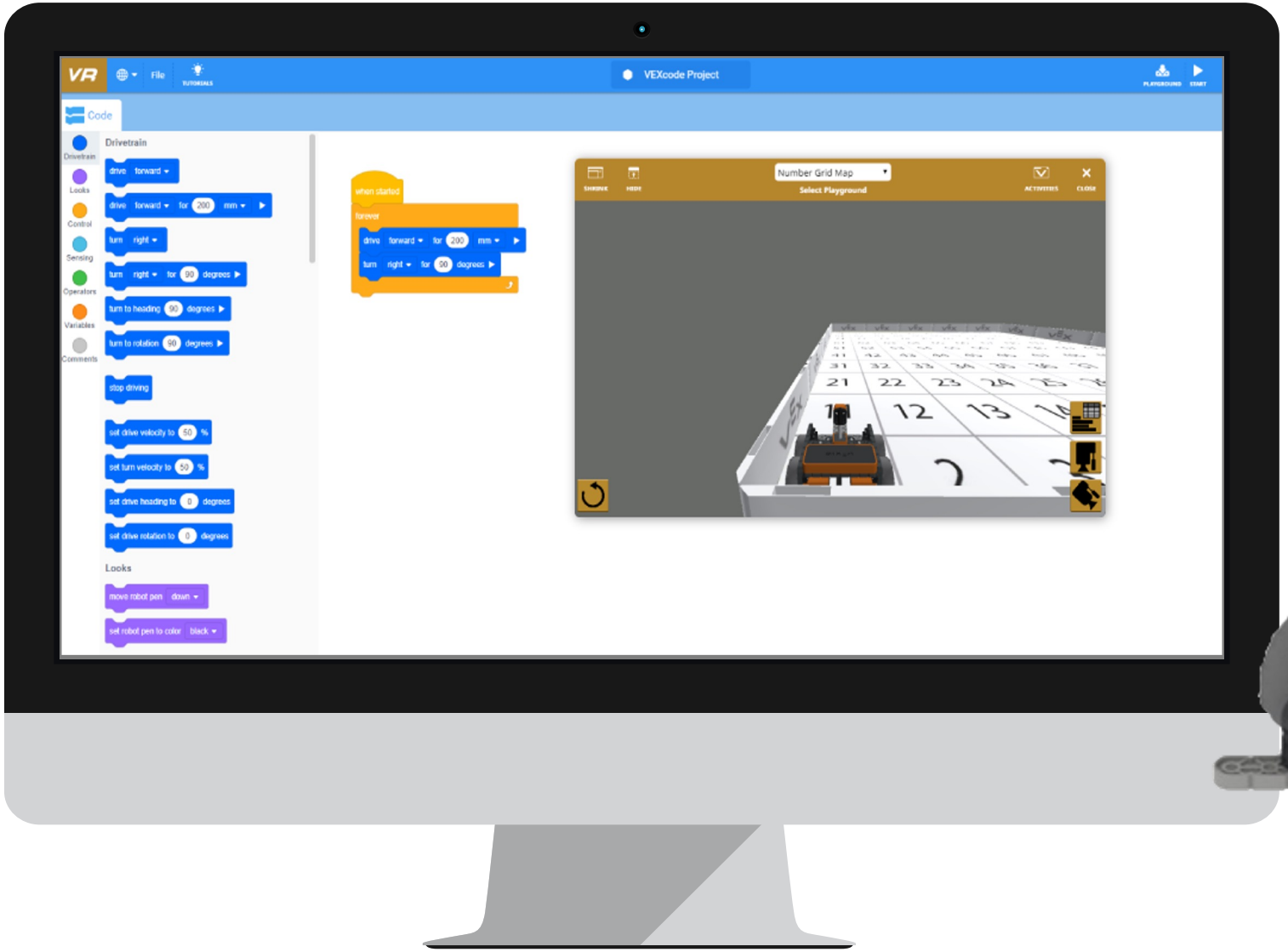
https://www.robotevents.com/support

Click on your Country or State to find your support team contact information

VEX ROBOTICS

www.vexrobotics.com

VR Skills
Mentor PD+
STEM Library
Certifications
and STEM Labs


VR
File
VEXcode Project
Code
Drivetrain
Looks
Control
Sensing
Operators
Variables
Comments
drive forward
drive forward for 200 mm
turn right
turn right for 90 degrees
turn to heading 90 degrees
turn to rotation 90 degrees
stop driving
set drive velocity to 50 %
set turn velocity to 50 %
set drive heading to 0 degrees
set drive rotation to 0 degrees
Looks
move robot pen down
set robot pen to color black
when started
forever
drive forward for 200 mm
turn right for 90 degrees
Number Grid Map
Select Playground

VEXcode VR

VEX VR

VEXcode VR RESOURCES

[VEXcode VR Information]

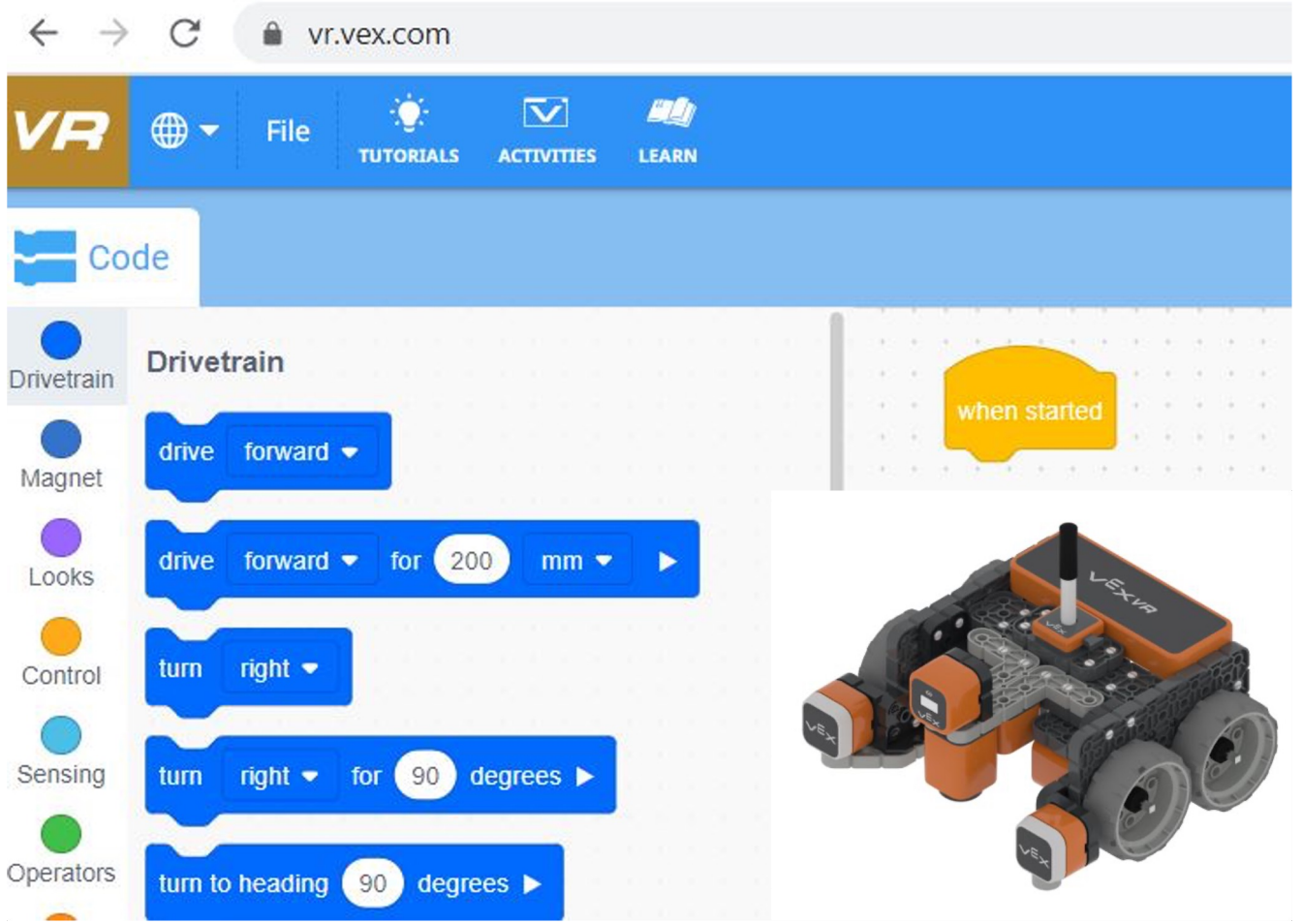
[Getting Started]

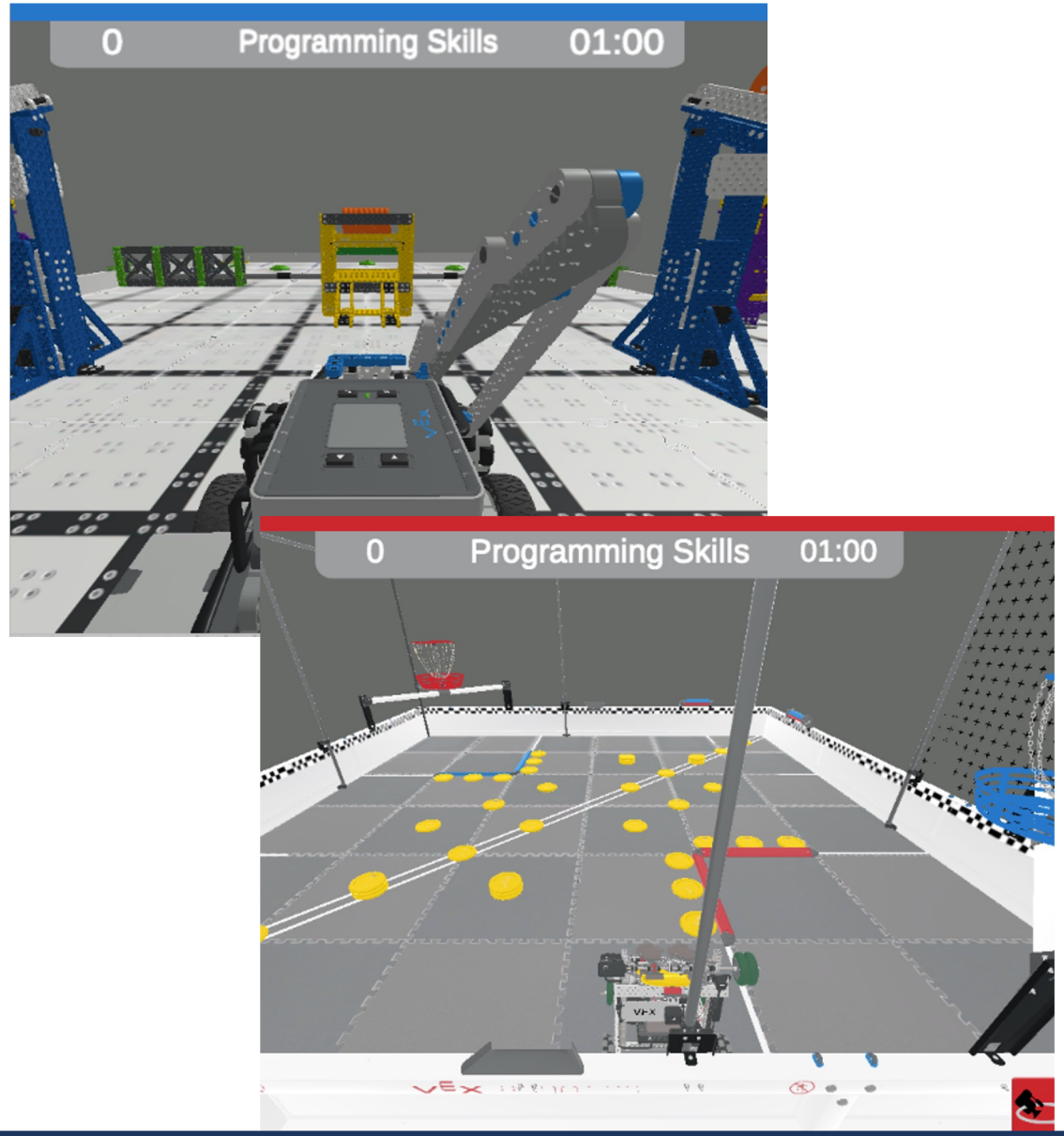
[Tutorials on VEXcode VR Features]

[Using Activities]

[Sharing Projects]

[Teacher Portal]





VR SKILLS

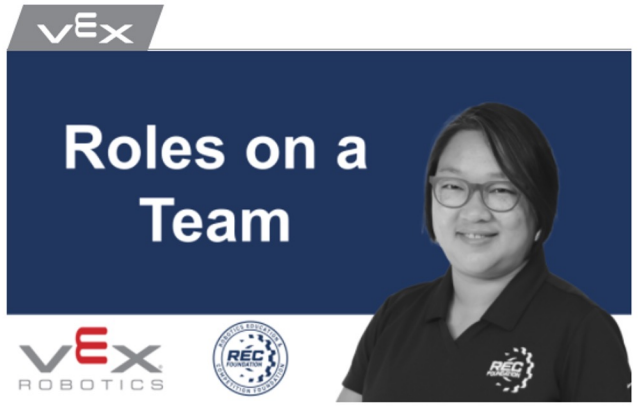
- Included in your team registration
- Drag, Drop, Drive
- Video Tutorials
- 22-23 Game
- Block and Text Based Options

VIQC and VRC VR Skills

VEX MENTOR PD+

Reshaping STEM Education Together

https://pd.vex.com/



Competition Day Best Practices

Competition Information

REC Foundation Forms, Policies and Procedures

VEX STEM LIBRARY

https://kb.vex.com/hc/en-us

123

IQ

V5

Education

CORTEX

GO

EXP

VEX CODE VR

General

VEX Robotics STEM Library is a wealth of information about all things VEX. This self-serve support is there to help users quickly find information about VEX products, services, or programming.

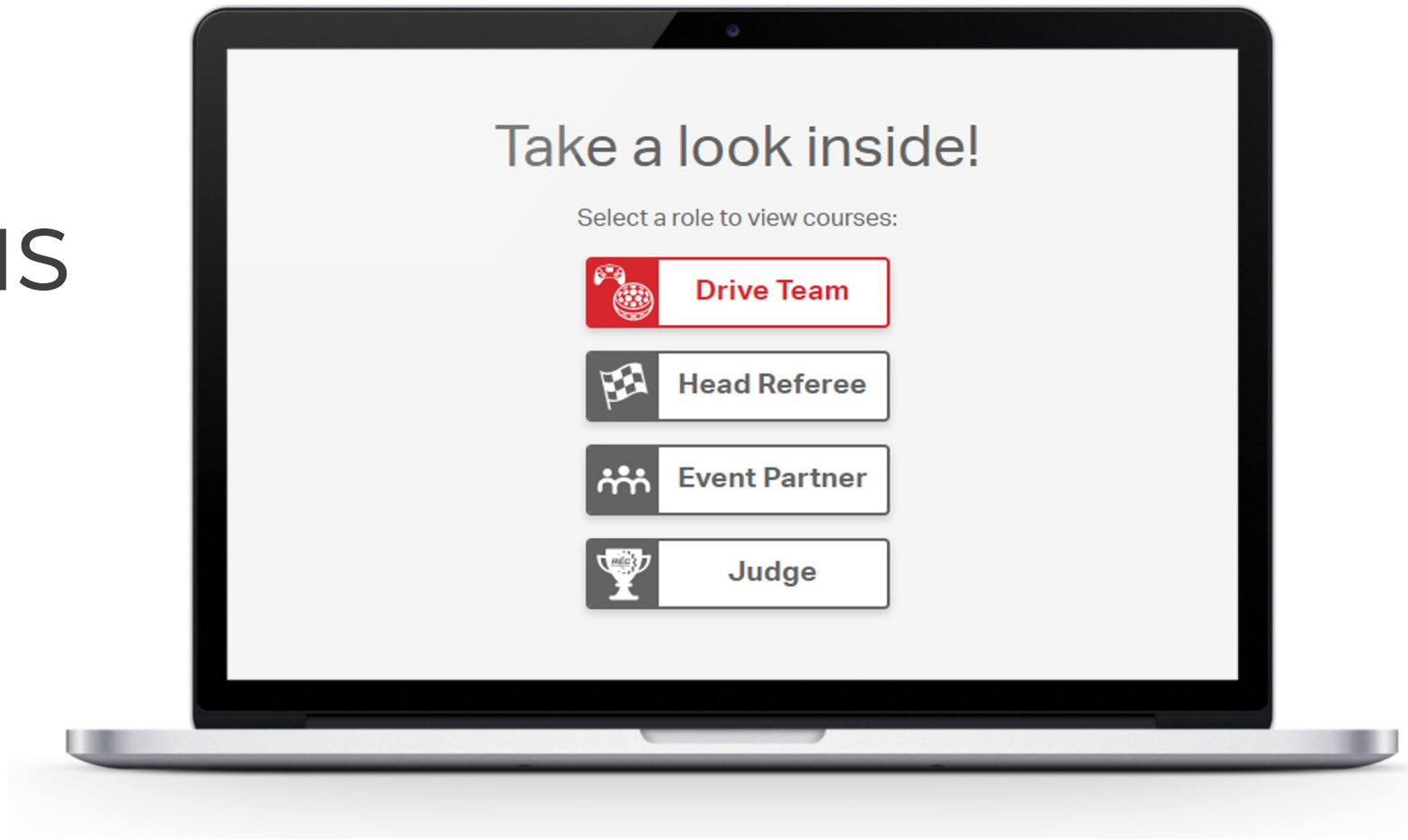
CERTIFICATIONS

Drive Team

Head Referee

Event Partner - Judge

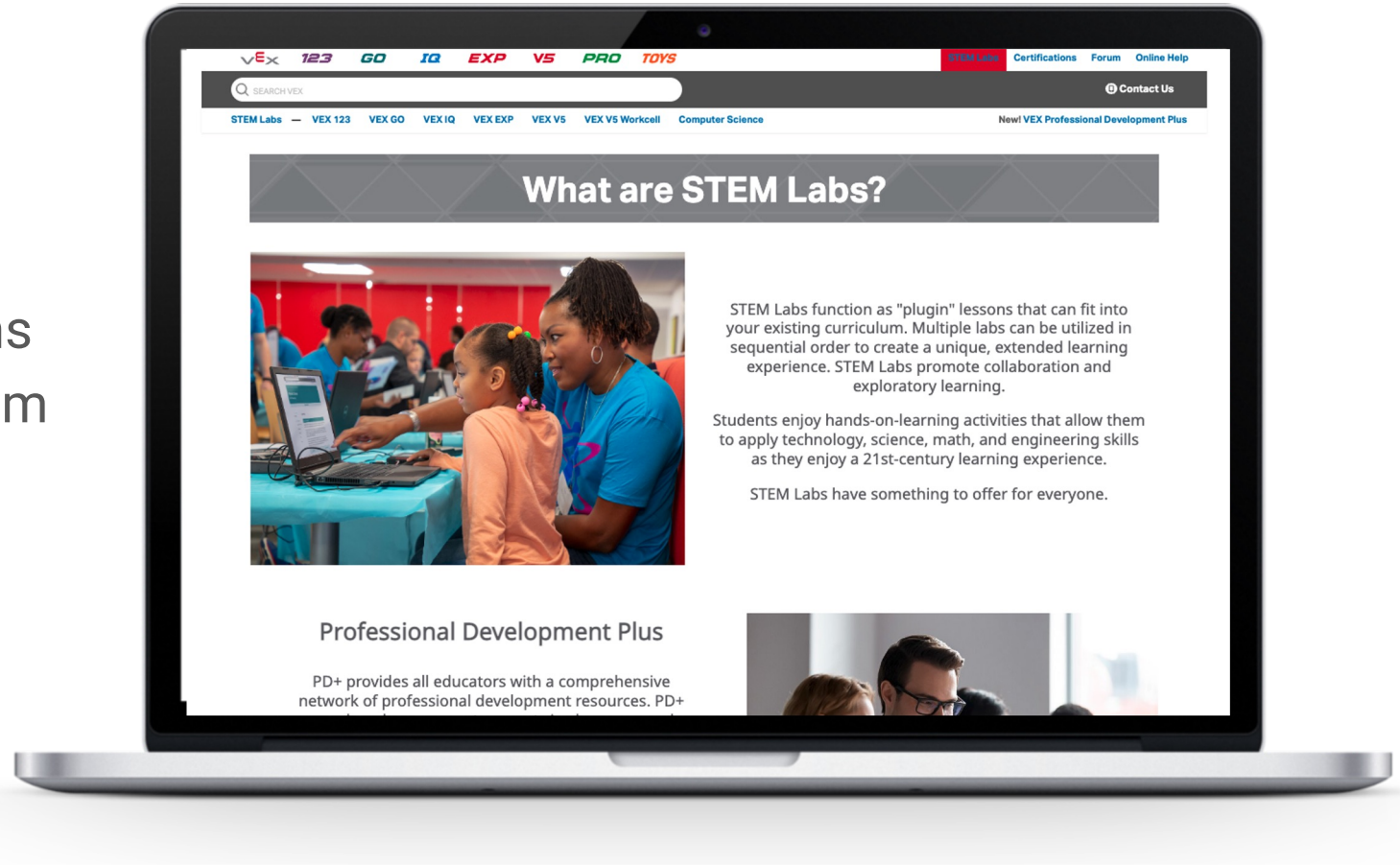
https://certifications.vex.com/



STEM LABS

STEM labs function as “plugin” lessons that can fit into your existing curriculum

https://education.vex.com/

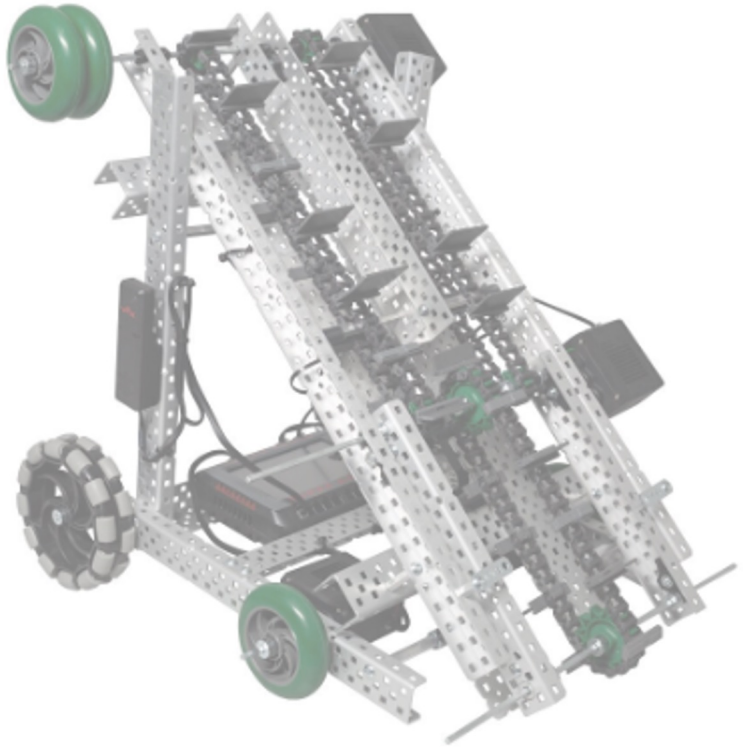


2022-2023 Hero Bot Build

Meet Snapshot

- ✓ Snapshot Gen 1 and Gen 2 - IQ Build Instructions
- ✓ VIQC Hero Bot Snapshot Video - Part 1
- ✓ VIQC Hero Bot Snapshot Video - Part 2

VEX ROBOTICS COMPETITION

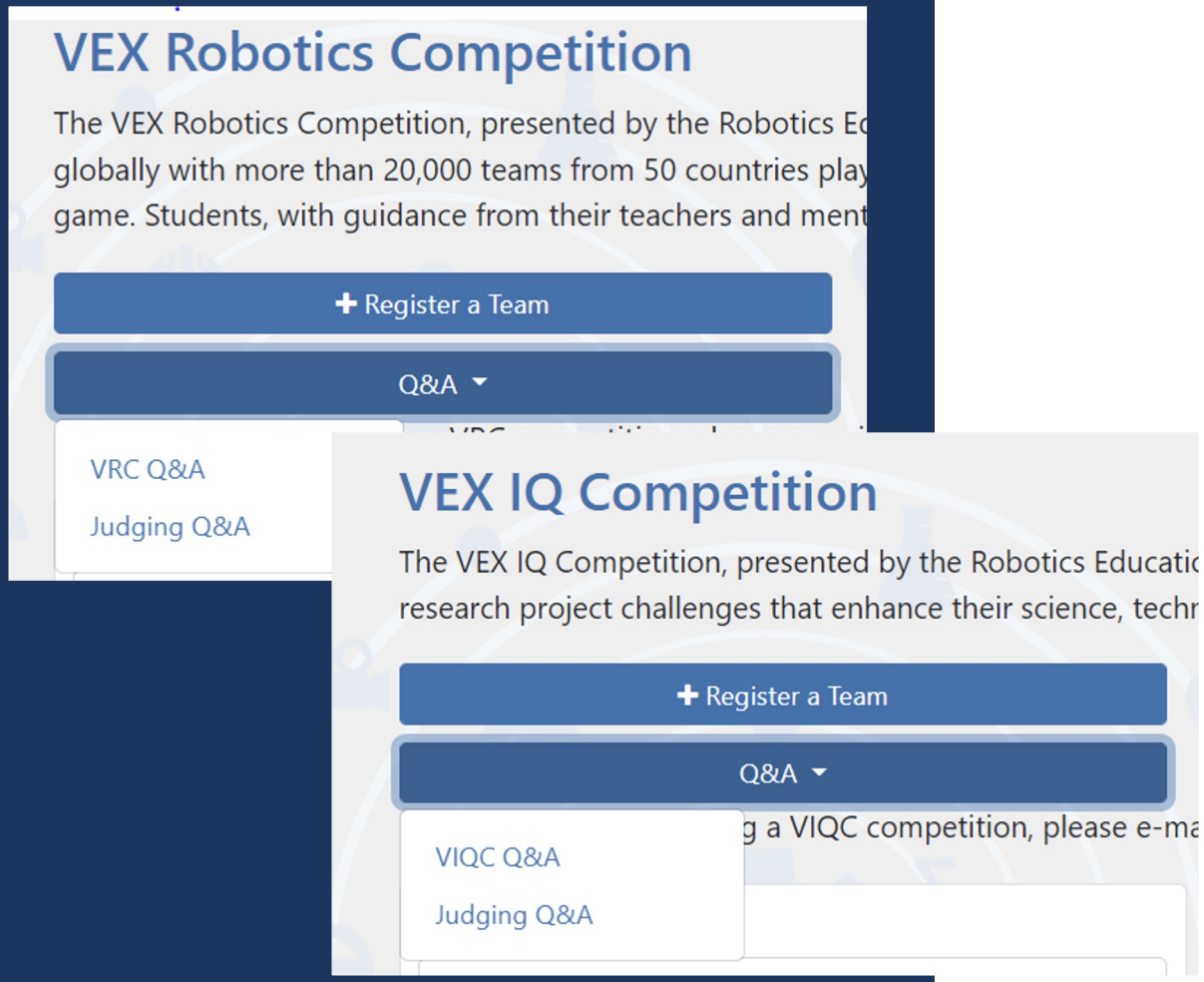


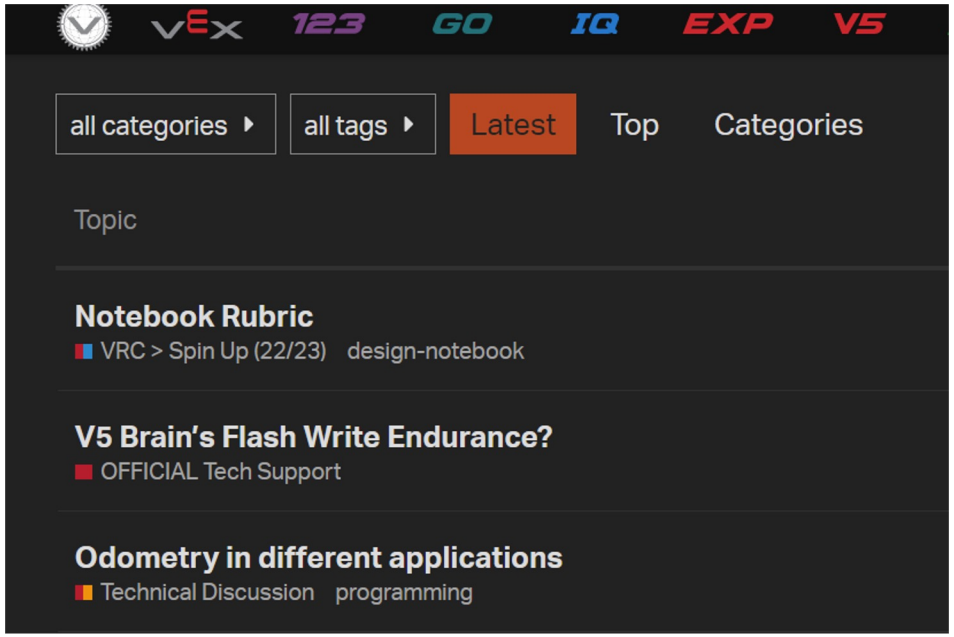
COMING SOON

2021-2022 Hero Bot Build

Meet Disco

- ✓ VRC Hero Bot Disco Video - Part 1
- ✓ VRC Hero Bot Disco Video - Part 2





RobotEvents Official Q&A

VEX Forum

Register your team today

Your team registration includes:

- **2022-2023 VEX Competition Welcome kit**

- **Mentor PD+**
  The Mentor PD+ is a video library of resource information for coaches, event partners, volunteers and parents. You will find anything from running a team, to hosting your first event, to preparing your volunteers.

- **REC Foundation Knowledge Base**
  The RECF Knowledge Base is a library of resource information for coaches, event partners, volunteers and parents. You will find anything from running a team, to hosting your first event, to preparing your volunteers.

- **Virtual Skills**
  VR Skills is designed to allow teams compete in a virtual environment with the 22-23 Slapshot or Spin Up

Register your team today

2022 - 2023 Initial RECF Registration fee of $200

- First change in team registration fees since June 2017
- US Teams Only: VIQC, VRC, VEX U, and Aerial Drones Competition
- Access to Online Challenges
- RECF program staff support
- Annual Coach and Event Partner Summits (both in-person and virtual)
- Access to educational materials & training

NEW Flat Organizational Fee

- $150 Registration fee for next three teams
- $650 max Registration fee for up to 22 team registrations

COMING UP NEXT

From Pre-K to 12th grade: The VEX Ecosystem does it all!

Learn how the vertical alignment of programs recently developed by VEX is solving many of the problems that coaches are facing as the popularity of competitive robotics grows.

2022 REC FOUNDATION COACH SUMMIT

THANK YOU

2022 REC FOUNDATION COACH SUMMIT