



**FIRST**<sup>®</sup>  
**FORWARD**<sup>SM</sup>

PRESENTED BY **Qualcomm**



# Behind the Buttons

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# Welcome Back!

ReReRe: Restart, Reorganize, Rejuvenate

All the *FIRST* Things for FRC Team Mentors



# Behind the Buttons

The FRC 2022 Season – Rapid React presented by Boeing

- FRC Landing Page
- Your Dashboard
- [Team Contacts](#)
- [Calendar – Deadlines](#)
- [Cost & Sales Tax](#)
- All about (online) Consent Forms
- Cool (Mostly New Things): [Team Management Resources](#)
  - [Mentor Guide](#)
  - [Mentor Training](#)
  - [Supplemental Resources](#)
  - Thinkscope (Lead Mentor 1 & 2 Access only)
- [FRC Team Email Blast Archive](#)



PRESENTED BY  Raytheon Technologies



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# FIRST Robotics Competition – Landing page

The screenshot shows the landing page for the FIRST Robotics Competition. At the top, there is a navigation bar with the FIRST logo, menu items for PROGRAMS, COMMUNITY, WAYS TO HELP, and ABOUT, a search icon, and buttons for DONATE and FIND FIRST NEAR YOU. Below this is a secondary navigation bar for the FIRST ROBOTICS COMPETITION, with links for ABOUT, START A TEAM, COST & REGISTRATION, GAME & SEASON, EVENTS, SCHOLARSHIPS, INNOVATION, and a highlighted GET STARTED button. The main content area features the FIRST logo, the title "FIRST Robotics Competition Game & Season", and introductory text about transportation's impact and the 2022 RAPID REACT game presented by The Boeing Company. A central graphic displays the RAPID REACT logo with the Boeing logo below it. Text below the graphic mentions the 2021-2022 season presented by Qualcomm and provides a link for "FIRST FORWARD Logos & Content". On the right side, there is a "Quick Links" sidebar with a list of resources such as Alumni, Awards, Blog, Calendar, Event Results, Event Search, Game Manual & Season Specifics (2021), Kickoff (2022), Kit of Parts (2021), Resource Library, Safety, Suppliers (2021), Team Management Resources, and Technical Resources.

**FIRST**

PROGRAMS COMMUNITY WAYS TO HELP ABOUT Q DONATE FIND FIRST NEAR YOU

**FIRST ROBOTICS COMPETITION** ABOUT START A TEAM COST & REGISTRATION GAME & SEASON EVENTS SCHOLARSHIPS INNOVATION **GET STARTED**

**FIRST**

## FIRST Robotics Competition Game & Season

Transportation drives us forward – impacting economies, bridging cultures, and making us all more globally interconnected.

FIRST® Robotics Competition teams will be challenged to reimagine the future of safe, high-speed travel and lightning-fast deliveries through innovative engineering, creative thinking, and teamwork in **2022 RAPID REACT™ presented by The Boeing Company.**

We're driving **FIRST FORWARD: Full Speed Ahead.**

**RAPID REACT™**

PRESENTED BY **BOEING**

2021-2022 **FIRST® FORWARD™** Season presented by Qualcomm

**FIRST FORWARD Logos & Content**

**Quick Links**

- Alumni >
- Awards >
- Blog >
- Calendar >
- Event Results >
- Event Search >
- Game Manual & Season Specifics (2021) >
- Kickoff (2022) >
- Kit of Parts (2021) >
- Resource Library >
- Safety >
- Suppliers (2021) >
- Team Management Resources >
- Technical Resources >



# Dashboard

You've logged in.... and then what?

The screenshot shows a web browser at the URL [my.firstinspires.org/Dashboard/](https://my.firstinspires.org/Dashboard/). The page features a blue header with the FIRST logo and navigation links: PROGRAMS, COMMUNITY, WAYS TO HELP, and ABOUT. A user profile for Laurie Shimizu is visible in the top right. The main content area is titled "DASHBOARD" and contains a navigation bar with four sections: MY TEAMS (highlighted), PARENT/GUARDIAN - YOUTH, VOLUNTEER REGISTRATION, and MY CLASS PACK ACCOUNT. Below this bar are five buttons: CREATE NEW TEAM, GIVE TO FIRST MISSION, REGISTERING YOUTH FAQ, RETURNING TEAMS, and ACCESS THINKSCAPE. A SHOPPING CART button with a red notification badge showing the number "1" is located on the far right.



# Dashboard



## Team Events

No registered events.

### EVENT READY

#### Event Options

- View Team Events
- Founder's Reception
- Kit & Kickoff
- Event Experience

My Roles/Invitations

My Profile

Update Email/Password

Acknowledgement Forms

Mentor / Coach Certificate

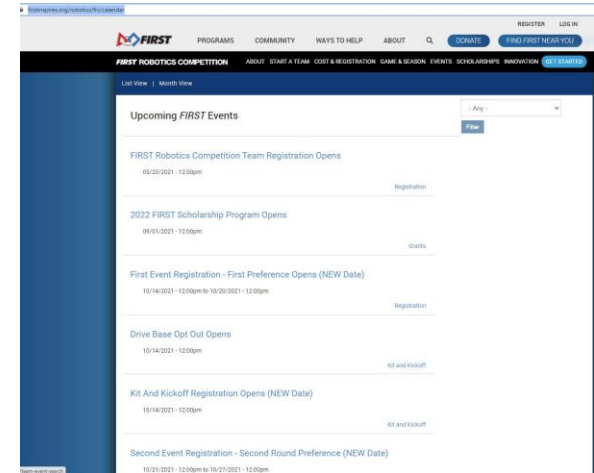
Youth Protection Screening

Log Out

## Team Options

Outstanding Tasks

# Check To Dos and access the FRC calendar from inside the dashboard





# Sales Tax, Finance, and Payment

## Sales Tax

\*New\*

- All Teams Must Declare if subject to sales tax.
- MN: If Sales Tax exempt: [ST-3 form](#)

The screenshot shows the 'Team Finances' section of a web application. It includes a shopping cart icon with a '1' notification, and a table of financial items:

Item	Amount
Shopping Cart	
Payment/Product (Receipt)	-
Funds & Grants	\$0.00
Credits	\$0.00

Below the table, there is a 'Finance Options' dropdown menu with the following items:

- Create Proforma Invoice
- Make A Payment
- Cost and Registration
- View Payment Terms
- View Payment History
- W-9 Information
- Sales Tax Exemption Information** (highlighted with a red circle and arrow)
- Request Your Regrant
- Financial Commitments

The screenshot shows the 'Payment & Product' dropdown menu with the following options:

- Order Replacement Parts
- Passwords/Voucher Codes
- Select Kickoff Kit Pickup
- Game Piece Opt In
- Drive Base Opt Out
- Founder's Reception
- Payment Terms

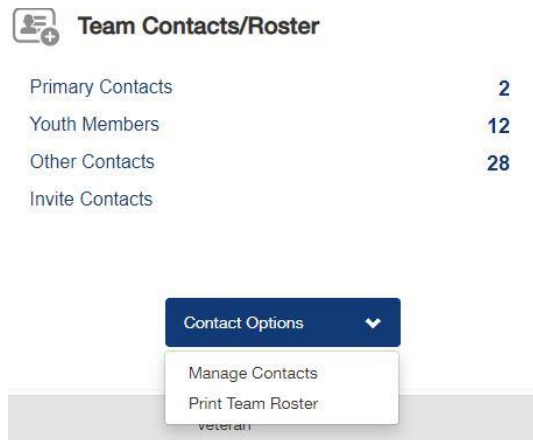
# Consent Forms – All Online

All mentors and students must have a current season Consent/Release form filed online with FIRST (even before you are involved with pre-Kickoff events, activities, outreach, training, scrimmages, etc.)

## Step-by-step instructions

Create a parent/guardian meetup/social.

As part of the gathering, everyone completes the C/R online at the same time.



The screenshot displays the 'Team Contacts/Roster' section of a web application. It features a table with the following data:

Category	Count
Primary Contacts	2
Youth Members	12
Other Contacts	28
Invite Contacts	

Below the table, there is a 'Contact Options' dropdown menu with the following options:

- Manage Contacts
- Print Team Roster

# All the Registration information as an Online Tutorial

All of the registration information – in a video!

## Create a *FIRST*® Robotics Competition Team

In the *FIRST* Robotics Competition walkthrough, you'll be guided through the new team creation process, ordering registration, including sales tax, *FIRST* Youth Protection Screening steps, and how to invite additional contacts to your team. We've provided separate walkthroughs for teams based in the United States and teams based outside of the United States.

United States-based Teams



Video chapters: 0:25 Creating your *FIRST* Account | 4:25 Creating your *FIRST* Robotics Competition Team | 11:40 Acknowledgement Forms and Youth Protection Screening | 13:16 Important Sales Tax Information | 16:30 Completing your Order | 19:14 Outstanding Tasks you may need to Complete | 19:59 Inviting Coach and Youth Contacts to your Team | 22:38 Viewing and Printing your Team Roster

# Cool New Things

- *FIRST* Mentor Network
- [Team Management Resources](#)
- [Mentor Guide](#)
- [Mentor Training](#)
- [Supplemental Resources](#)
- Thinkscape

# Volunteer Button

Welcome!

There are two primary types of volunteering for *FIRST*<sup>®</sup> Programs

## Event Volunteering

Volunteer at a local event. Click here to use the Event Search to find events in your area!

## *FIRST* Mentor Network

An interactive, community platform allowing teams and interested mentors to easily find each other for virtual mentoring opportunities.

# Mentor Network

The screenshot shows a web browser window with the URL `my.firstinspires.org/MentorNetwork/welcome`. The page features a dark blue navigation bar with the FIRST logo on the left and navigation links for Discovery, My Profile, and Messages. A user profile for Laurie is visible on the right. The main content area is a white card with a blue header that says "Welcome to the FIRST Mentor Network! Sponsored by [Intel logo]". Below this are two columns: "Find a Team" with the subtext "Create a mentor profile to begin" and a "Get Started" button, and "Find a Mentor" with the subtext "Create a Team Post for your team" and a "Get Started" button.

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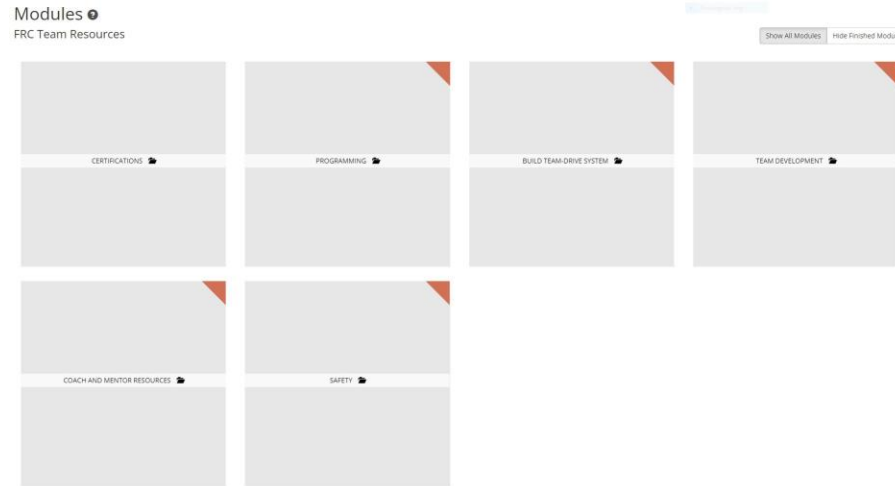
# Dashboard

## Lead Mentor 1 and Lead Mentor 2 Access

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# Thinkscape Button



# Thinkscape Button

The image shows two overlapping screenshots of the FIRST Robotics Competition website. The left screenshot displays the 'Beginner' section with a list of tasks and a 'SUBMIT' button. The right screenshot shows the 'Introduction' page for the WPILib software packages, including a 'Note' section and a list of resources for Java and C++.

**Beginner**

Complete the Getting Started section to go from 0 to a working basic robot.

- A. Getting Started Step 1 Introduction
- B. FRC Software Component Overview
- C. FRC Control System Hardware
- D. Offline Installation Preparation
- E. WPILib Installation Guide (C++/Java or LabVIEW Directions)
- F. Installing FRC Game Tools (Wiring a Robot if Applicable)
- G. Configuring the roboRIO
- H. Programming your Radio
- I. Update and Configure Pneumatics Control Module and Power Distribution Panel
- J. Getting Started with a Benchmark Robot

**WPI Library** | NI | WPI Robots Videos

Introduction

Step 1: Building your Robot  
Step 2: Installing Software  
Step 3: Preparing Your Robot  
Step 4: Programming your Robot

**CONTROL SYSTEM OVERVIEWS**

Hardware Component Overview  
Software Component Overview

**PROGRAMMING BASICS**

What is WPILib?  
2021 Overview  
VS Code Overview  
FRC LabVIEW Programming

Actuators  
Sensors  
CAN Devices

Basic Programming  
Support Resources  
FRC Glossary

API DOCS

WPILib Java API Docs  
WPILib C++ API Docs

**SOFTWARE TOOLS**

Driver Station  
Shuffleboard  
SmartDashboard  
Glass  
LabVIEW Dashboard  
PathWeaver  
RobotBuilder  
Robot Simulation

**FRC Game Manual** | FRC Game Q&A | 2014 CS Archive

Introduction [Edit on GitHub](#)

## Introduction

Welcome to the official documentation home for the FIRST® Robotics Competition Control System and WPILib software packages. This page is the primary resource documenting the use of the FRC® Control System (including wiring, configuration and software) as well as the WPILib libraries and tools.

### New to Programming?

These pages cover the specifics of the WPILib libraries and the FRC Control System and do not describe the basics of using the supported programming languages. If you would like resources on learning the supported programming languages check out the recommendations below:

**Note**

You can continue with this Zero-to-Robot section to get a functioning basic robot without knowledge of the programming language. To go beyond that, you will need to be familiar with the language you choose to program in.

### Java

- Code Academy
- Head First Java 2nd Edition is a very beginner friendly introduction to programming in Java (ISBN-10: 0596009208).

### C++

- LearnCPP
- Programming: Principles and Practice Using C++ 2nd Edition is an introduction to C++ by the creator of the language himself (ISBN-10: 0321992784).
- C++ Primer Plus 6th Edition (ISBN-10: 0321776402).

### LabVIEW

- NI Learn LabVIEW

# Bookmark recommendations

## Team Resources

- > Team Blasts Archive (email)
- > Blog (FRC Program staff)
- > follow FRC Teams on Twitter

Stay Connected

- [Team Blasts Archive](#) | [Blog](#) | [Facebook](#) | [Forum](#) | [Twitter](#) | [YouTube](#)

# Have you met the Event Ready goal?

This is where you want  
to be by October 14!

..and [questions on team registration](#)

FIRST HQ contact info:

[firstteammembers@firstinspires.org](mailto:firstteammembers@firstinspires.org)

or 800-871-8326, Option “0” for assistance



## Team Events

*No registered events.*

### EVENT READY

#### Event Options

- View Team Events
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- Event Experience

# Questions?

Laurie Shimizu, [Ishimizu@firstinspires.org](mailto:Ishimizu@firstinspires.org)