



PRESENTED BY Qualcomm

Running a FIRST Event in a Nutshell

Made by Students, For Students

FRC Team 2486 | The CocoNuts



CocoNuts
Team 2486



Introductions + Our Background

Official Title: The Organizing Partner for Arizona FIRST Tech Challenge

As the CocoNuts We Have:

- Supported ...
 - 117 FLL/FTC/FRC Events
- Ran ...
 - 81 FLL/FTC Events
- Volunteered ...
 - Over 29,400 hours making these events possible



PRESENTED BY Raytheon Technologies





What Will We Cover Today?

- Planning
- Volunteers
- Set-Up
- Live Streaming
- Execution
- Team Support
- So, What About the Adults?
- Questions



Planning

Ask Yourself:

Who??

What??

Where??

When??

Why??

Planning

Who? ...is registering teams?

- Your team
- Or program director

Who? ...is volunteering?

- How many?
- How are we recruiting?
- How are we feeding them?
 - Set up Dinner
 - Breakfast & lunch

What? ...kind of event is it?

- FLL
- FTC
- FRC
- Scrimmage
- Qualifying Tournament
- Championship Tournament
- Off Season Event
- Invitational

Planning

Where? ...is the venue?

School or university?

Community Space?

Outdoors?

Layout determines everything

Pit space

- How many teams
- Perimeter for each pit
- Load in for each pit
-

Competition area

- Number of fields
- Traffic flow
- Technology

Planning

When?

Ask yourself...

- Is it interfering with our own events or competitions for other programs in our region?
- Is it in our pre-season?
- Is it interfering with school?
- Does it work with the community?
- Is it on a holiday?
- Are there any school or venue events?

Volunteers

Who's the Most Important Volunteer
The Right People for the Right Job
Student Volunteer Expectations

The Right People in the Right Place

Assign people based on skill set

- *Head Programmer > CSAs, possible FTAs*
- *Robot Builder > FLL Robot Judge, FTC Robot Inspector*
- *Punctual Member > Queuer*
- *Enthusiastic and Diligent Members > Field Reset*
- *Organized Member > Managing Hospitality, Pit Admin*

**Students are always supervised by adults in key roles*



Student Volunteer Expectations

What to look for:

- Preliminary training
- Group meetings at the venue
 - i.e. referee meeting
usually includes scoring
& field reset
- Qualifications for roles

*Age - please refer to the FIRST
volunteer manuals for each role*

- Volunteers >13
- CSA > 18*
- FTC Judge > 21
- Referees > varies by program

**Discretion of the volunteer
coordinator or Program Delivery
Partner*



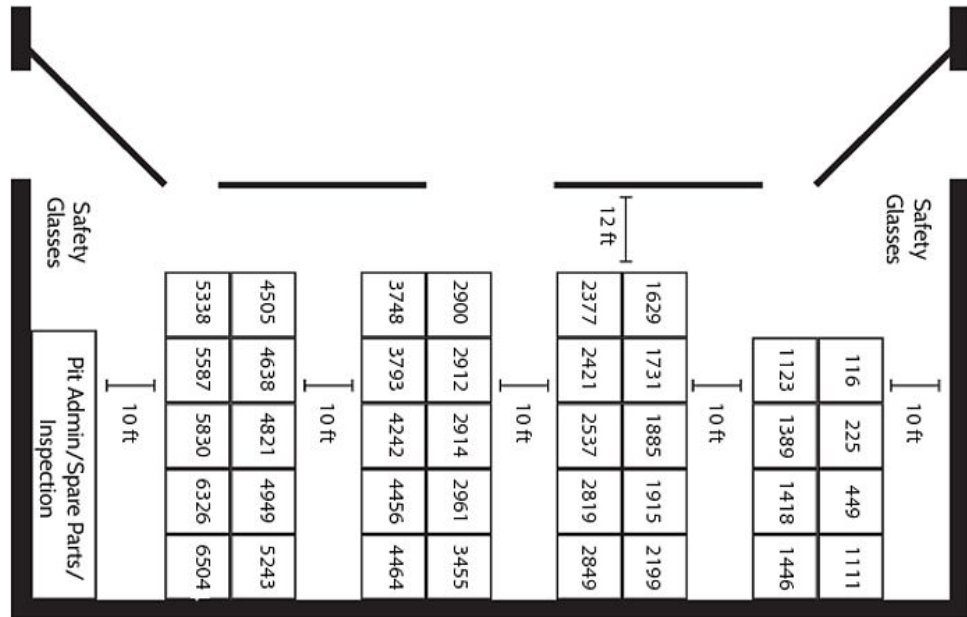
Set-Up

Pits

Practice Area

Competition Area

Venue Layouts



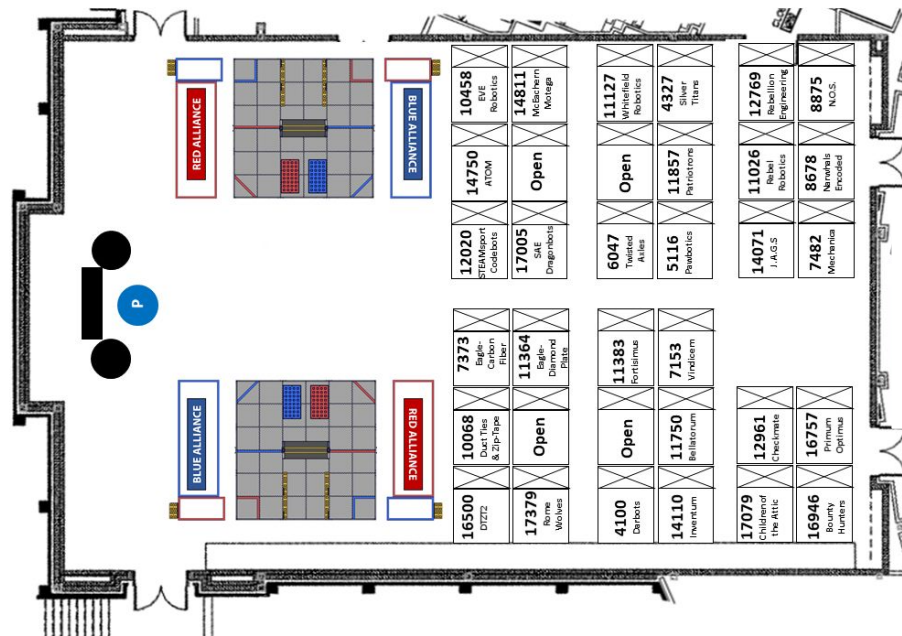
Pits

Need:

- Electricity to each pit space
- 10x10ft per team, is suggested

Nice to Have:

- Ranking Display
- Match Display



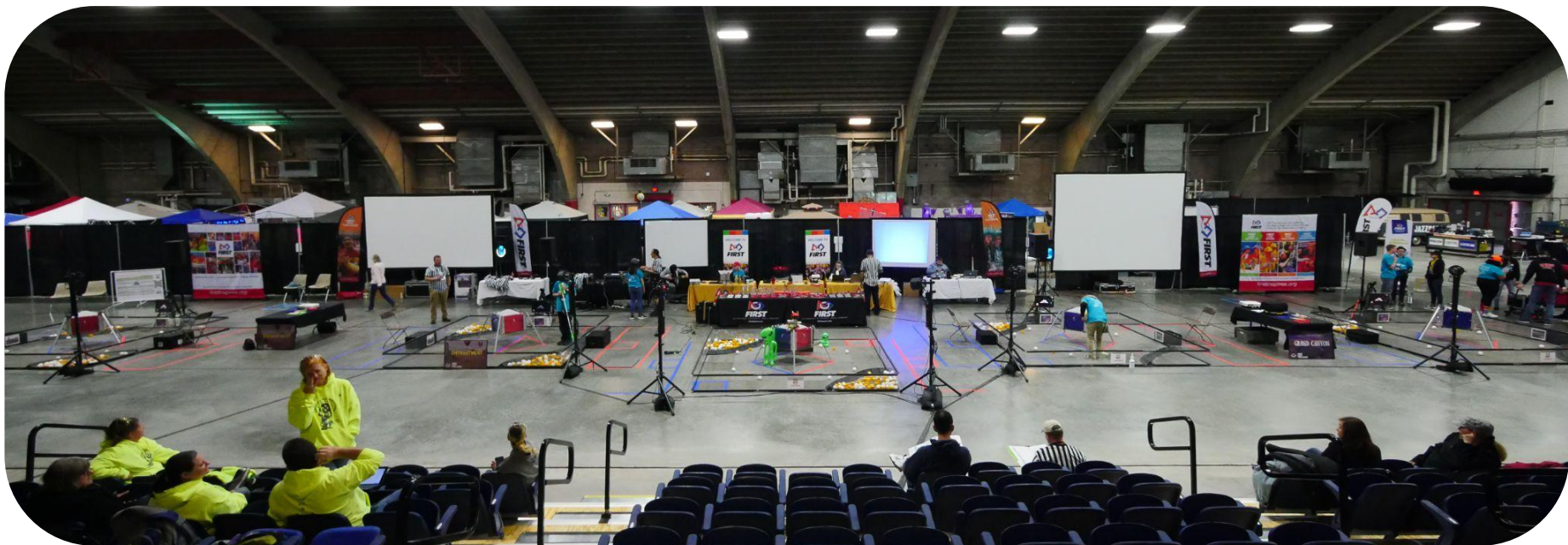
Practice Area

Need:

- Field
- Necessary game elements
- Tip: Borrow fields from competing teams but include team # on all pieces

Nice to have:

- Near the pits
- Tables by fields
- Volunteer supervising



Competition Area

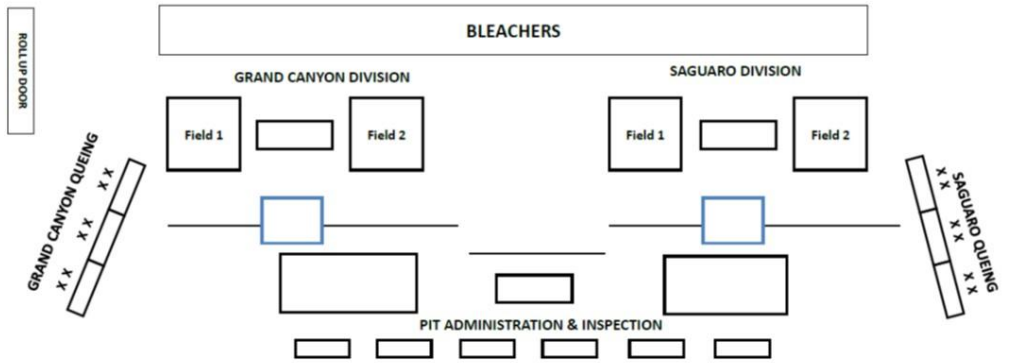
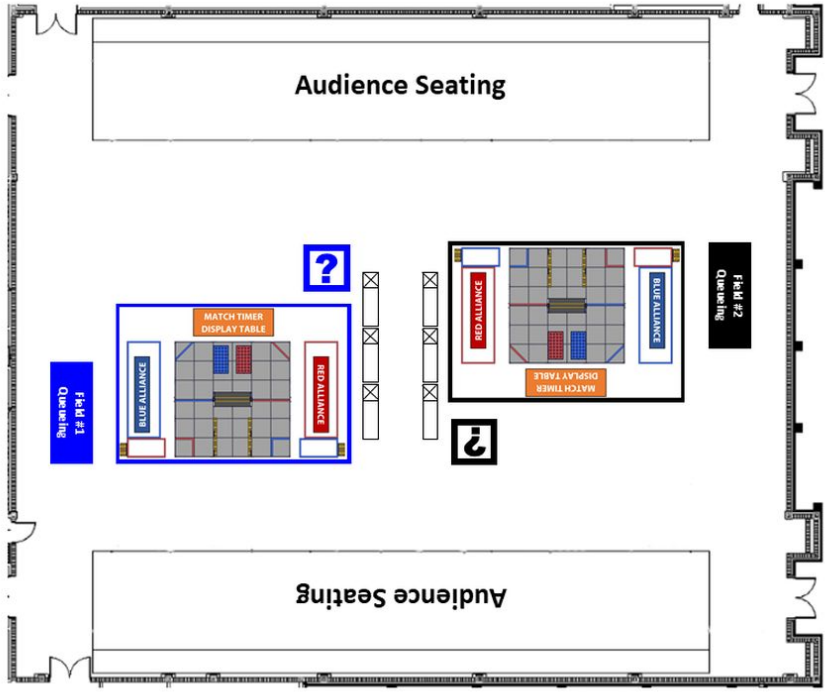
Need:

- Field
- Power
- Scoring Tables
- Queuing Areas
- Sound System
- Seating for spectators

Nice to Have:

- Audience display
- Awards display
- *Livestream

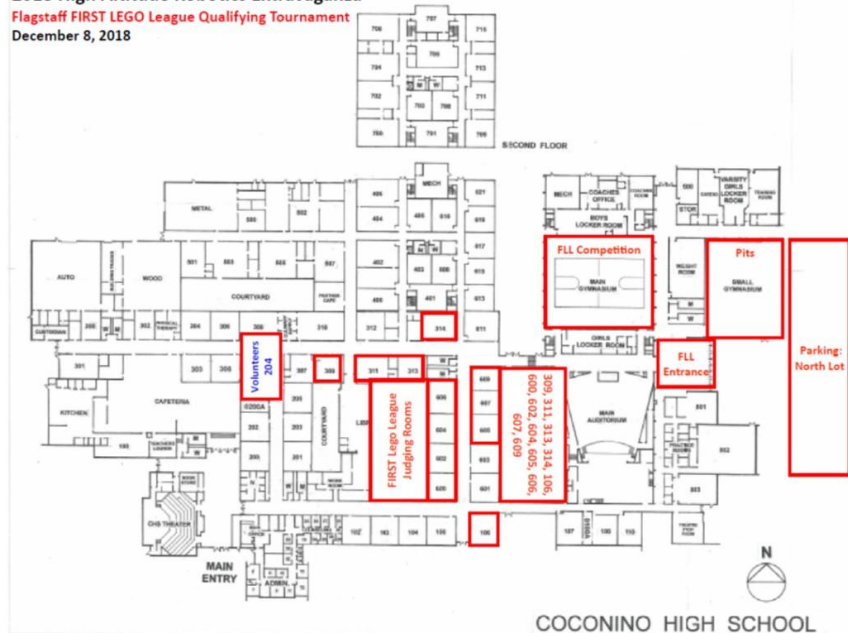
Different Comp Area Layout for Different Venues



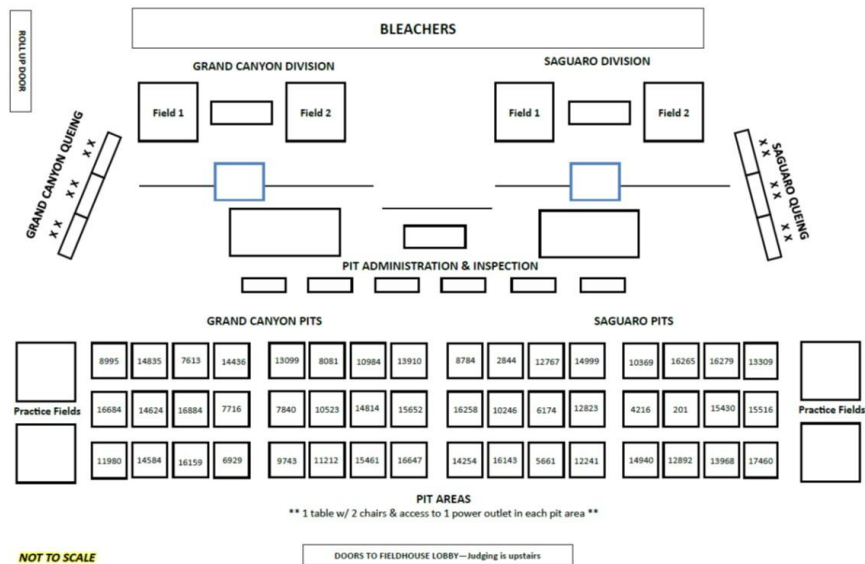
Venue Layouts

FLL

2018 High Altitude Robotics Extravaganza
Flagstaff FIRST LEGO League Qualifying Tournament
December 8, 2018



FTC



Volunteer
Lounge/
Basketball
Court—no
teams
please

Live Streaming

Live Streaming Pros and Cons

Live Streaming Preparation

Our Notable Equipment

Live Streaming Pros and Cons

Pros

- Accessibility
- Parent/Community Involvement
- Team Scouting
- Memories

Cons

- Expensive
- Requires a Volunteer to Manage
- Technically Demanding

Live Streaming Preparation

Livestream Platform (Youtube, Twitch, ETC.)

- Making an event
- Distributing the link
- Understanding limitations

Venue

- Hardline Internet connection
- Unblock Streaming Platform

Packing Equipment

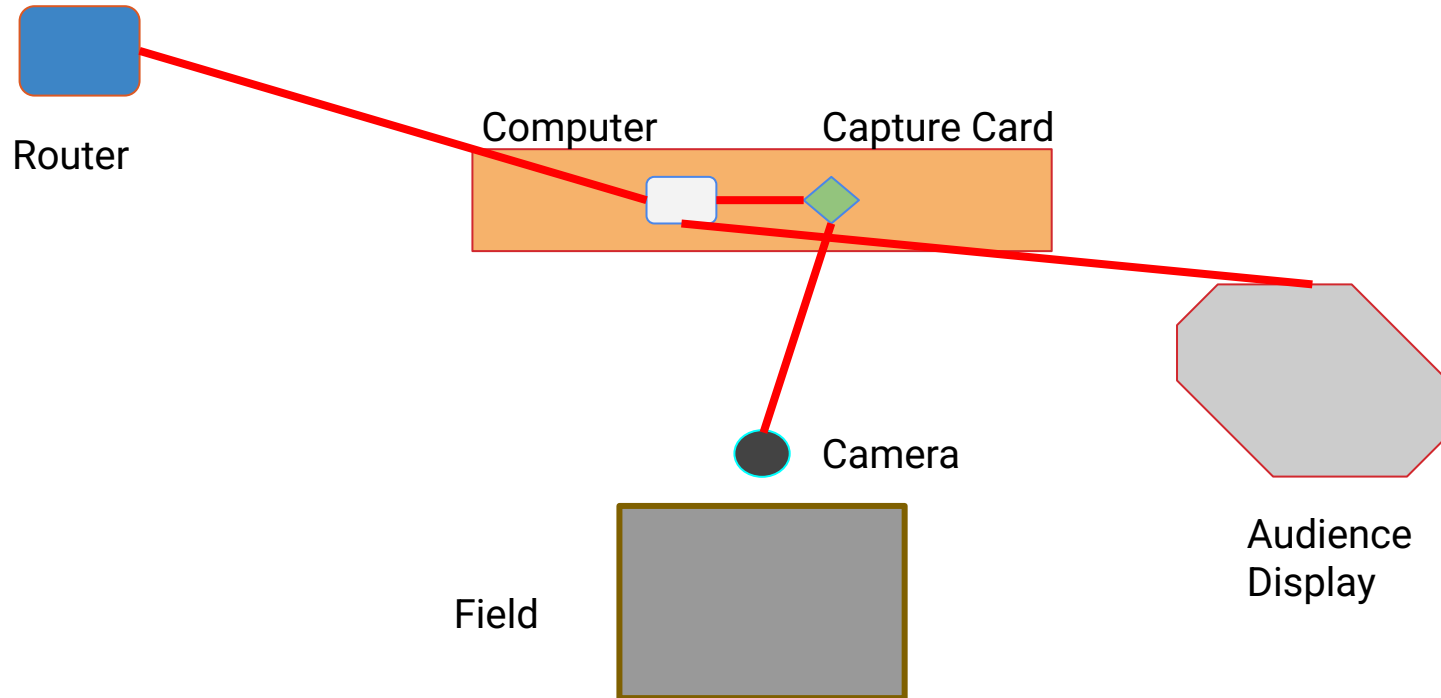
- Cameras
- Tripods
- Computers
- Cords



Our Notable Equipment

- Dell Latitude
 - OBS
- 75ft HDMI Cables
- 150ft Ethernet Cables
- Zoom Q2n Zoom Handy Video Recorder
- Blackmagic Design Intensity Shuttle
- HDMI Switcher
- Male Micro-HDMI to Female HDMI

Our Equipment Layout





Execution

Maintaining Standards
Tips and Tricks

Maintaining Standards

Stay on Schedule

- Strong Queuing Team
- Knowledgeable Field Staff
- Good Luck



Make it ***FUN*** and ***ENGAGING***

- Play Dance music
 - FIRST Playlist is a must
- Volunteers Cheer, Dance, Pay Attention
 - Never on their phones
 - Be role models

Remember you are representing FIRST!

Tips and Tricks

- First to arrive, last to leave
- **CLEAN UP**
- Wear comfortable shoes
- Bring backup equipment
- Take Breaks
- Hydrate & eat snacks
 - Volunteers LOVE goodie bags
- Know who to go to for different kinds of questions
 - Ex: Field/game issues = head referee
 - Logistics = tournament director





Team Support

Help Fix and Improve

Help Fix and Improve

“Help them become better than when they came in”

- Sending a programmer to a struggling FLL team's pits to help the solve a mission.
- Assisting an FTC team with tricky motor reattachment.
- Helping a team come up with a unique cheer.

Be careful not to overstep

- *Be* a resource
- *Answer* questions
- ***DON'T*** overstep, let the kids problem solve



The background is a dark navy blue with a subtle, light blue grid of thin lines forming a pattern of small triangles. Larger, solid-colored geometric shapes are scattered around the edges: a blue triangle in the top-left, a yellow triangle below it, a teal shape in the top-right, a yellow triangle above it, a teal shape in the bottom-left, and a yellow triangle below it. The text "So, What about the Adults?" is centered in a bold, white, sans-serif font.

So, What about the Adults?

Roles

- Coordinator
 - Volunteer
 - Team Registration
 - Venue
- Hospitality or Pit Admin
- Head Judge
- Head Referee
- **PUTTING OUT FIRES!**



The background is a dark navy blue with a subtle, light blue grid of thin lines forming a pattern of small triangles. Scattered around the edges are several larger, solid-colored geometric shapes, primarily triangles and chevrons, in shades of teal, yellow, and dark blue. These shapes are partially cut off by the frame, creating a sense of a larger pattern continuing beyond the edges.

Questions?