

256

WAYS TO INSPIRE



How to Prepare for a competition

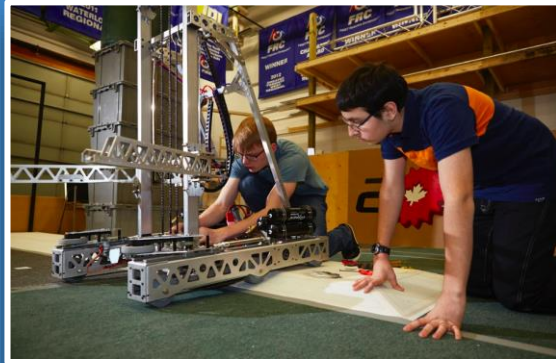


Philosophy of Design

Simple

Effective

Robust



Build a Field



Build as much of the field as
you can
Build it early
2007 example
Visual
Driver visibility



Build Two Robots

Or at least something similar to your drive train



Strategy



Strategy Talks help with design
Strategy Talks help with scouting
Strategy Talks help with game play

Keep an eye on wear

Watch all stress points and wear items while practicing

Plan for replacement before it breaks

Check drive gears



Build Team



Eat Together



Have Fun



Know the Rules

The screenshot shows the FIRST Robotics Competition website. The top navigation bar includes 'Programs', 'Community', 'Ways to Help', 'About', and 'FRC'. A search bar with a 'Donate' button and 'Register' and 'Log In' links are also present. The main heading is 'FIRST Robotics Competition Game & Season Info'. The central content area features the 'INFINITE RECHARGE' logo and a graphic of a city skyline. Below the logo, the text reads: 'POWER THE FUTURE. Renewable sources of energy are everywhere, all the time. Working together in the 2020 season of FIRST® Robotics Competition, INFINITE RECHARGE™, we can support boundless innovation and create a society that's empowered, inspired, and hopeful. Coming January 4, 2020. Get more info about the 2020 season. Register your team.' To the right, a 'Quick Links' sidebar lists: '2019 Game & Season Materials - DESTINATION: DEEP SPACE', 'Blog', 'Kickoff', 'Season Calendar', 'Resource Library', 'Mechanical Resources', 'Technical Resources', 'Awards', 'Kit of Parts', 'FIRST Robotics Competition Suppliers', and 'Safety'. At the bottom of the sidebar is a 'Leave a message' button. Below the main text, there is a video player titled 'INFINITE RECHARGE Teaser' with a 'Watch later' and 'Share' button.

Reread the manual
Rules quiz
Review Q&A



Prepare for Judges



Plan what to say
Plan who will speak
Draw them into your story



Paper Work



Medical Information
Contact Information

- **Students**
- **Parents**

Team Roster



Backups

Robot Code
Driver Station
Programming laptop



Don't Be Stupid

Have a chat with your
Team about GP

Talk about behaviour

Devices

Social Media

Illness

Opportunities

Have a chat with your
Parents about GP

Talk about behaviour

Medical

Opportunities



Pit

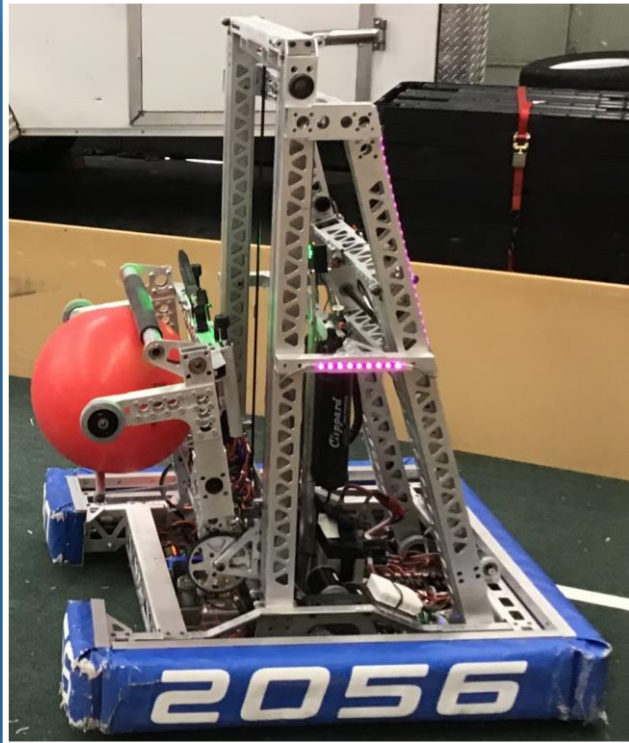


Prepare pit before hand
Make sure it fits
Make sure it is functional
Pit is for robot not a hangout
Pre match check list
Post match check list

Check and Double Check



Spare Parts



Have all key components
wheels, gear boxes,
electronics, speed controllers,
sensors, cameras, pneumatics,
electrical

Fasteners, chain, belts,
pulley, gears

Pit

Checklist of items

Robotics Event Check List - <u>Champs 2019</u> - page 1		R - Ready, L - Loaded	
R	L	Items	Items
Sawing			
		Projector x2	TV's
		Laptop	Barriers, Flag (White Tube)
		Screen x 1	Chairs
		Cables	Garbage Can, Brush, Dust pan, Inge
		2 small Tables	
		Video Camera, cords	Extension Cords
		Camera, Batteries, SD Card	Power Bars
		Tripod x2	Soldering iron, wick, solder, electric solder gun
		Scraping Sheets	Makitewoz
		Scraping bit, 6/16ers, pens, duct tape	Heat Gun
Pa			
		Black Tool Box	Electric ad tape, duct tape,
		Grey Tool Bench	Shrink Wrap
		Bandaw	Velcro
		Drill Press	Patty
		Sander	Stapical tubing
		Ratchet Set	Zip ties
		Wrenches	Light
		Wire strippers, wire cutters, 9999999	Batane
		Crimpers	Vacuum
		Drills, chargers	Aller Keys - Metric and Imperial
		Drill bits, driver bit, counter sinks	Grease
		Screw Drivers, punches	Towels
		Clamps, vice grips, vice	Rivet Guns
		Hack saw & blades	Aluminum flat, tube, angle
		Calipers	19999
		Battery Cut	Spac e material tube
			Stiching
		Bakers	Dry Erase and White Board
			999999 and Pens
			2036 Signs
			Shirts, safety glasses

Robotics Event Check List - <u>page2</u>		R - Ready, L - Loaded	
R	L	Items	Items
		Bulle Bins	
		Electrical Bins (Comp. 9999 , Anderson)	Sawflings
		Pneumatics Bin	Traces
		Electronics Bin	flexid lights and cables
		Schematics and manifolds	carpet
		Pneumatic Tubing	chairman's 9999
		Surgical Tubing	Food Bin
		Spare 99999 and modules	Water
		Power Distribution Board	printer
		spare Radio	tablets
Robot			
			Elimination Scraping Sheet
		AV Cart	Scraping bin
		Controls, Driver Station, power adapter	Power inverters
		Spare Controls, Driver Station, power adapter	Batteries
		Programming laptop, power cable	Charger
		ethernet cables (short, tether)	
		robot cart	
		spare patch/bw	signs
		999 tether (long and short)	
		hatch panel	9999
		vision target	
		plywood base plate	
		cargo	Team Router
			Test
			Permission Form
			Vehicle Travel Form
			Printed form class paperwork & trip info
			medical form



Location

Know where you are going
Google Maps
Street View
Parking

**WATERLOO REGIONAL FIRST ROBOTICS COMPETITION
Parking Map**

THURSDAY & FRIDAY PARKING
Parking is complimentary at these locations through the event.

SATURDAY PARKING
Parking is complimentary at these locations on Saturday only

COMPETITION AREA
The main event takes place in the Physical Activities Complex.

Parking at these locations is free for the days listed.

The University of Waterloo is still at work while the event is ongoing — this is why parking is further from the event on Thursday and Friday.

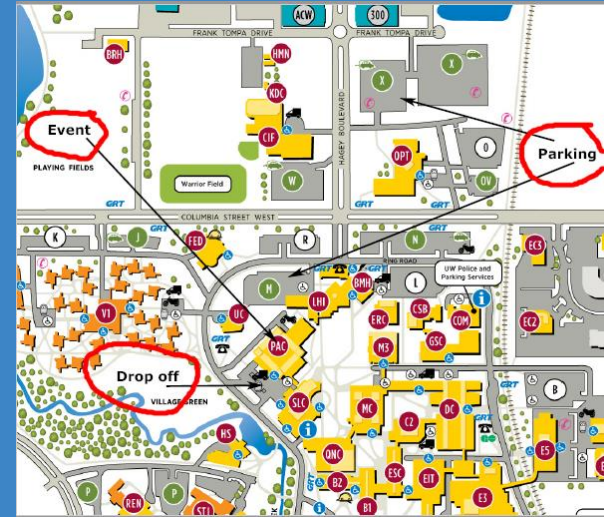
Lots Closer to the PAC
Paid parking is available in Lot M on Thursday & Friday. Space in this lot is limited and trailers are prohibited in this lot.

Disregard Signage
Please disregard signage indicating a lot requires payment if it is listed as free here. Special arrangements are made for FRC.

Questions?
Please direct questions to the welcome desk attendants inside the venue.

From KING ST N exit turn RIGHT on COLUMBIA
From UNIVERSITY AVE W exit turn RIGHT on SEAGRAM, then LEFT

2016 Waterloo Regional | University of Waterloo, 200 University Ave W, Waterloo, ON N2L 3G1



Get a Crate Ready



Maybe, Maybe Not



Invite your Sponsors

Plan to meet sponsors

Have students give them a tour

Get Pictures



Prepare for Food



Preorder
Organize for Drive Team at least
Breakfast, Lunch, Dinner
Snacks
Water

Get there early



Strategy



Game Board
Plan to talk to Partners
Scouting info
Video

Scouting



Help students to understand
the importance

Train scouts

Go to early event

Practice

Watch video

Include scouts in pick list

Pick List



Have One
Be prepared
Communicate to Alliance Captain



Look Good

Take lots of Pics and Video



Celebrate

Win or Lose or Tie



Get lots of rest

