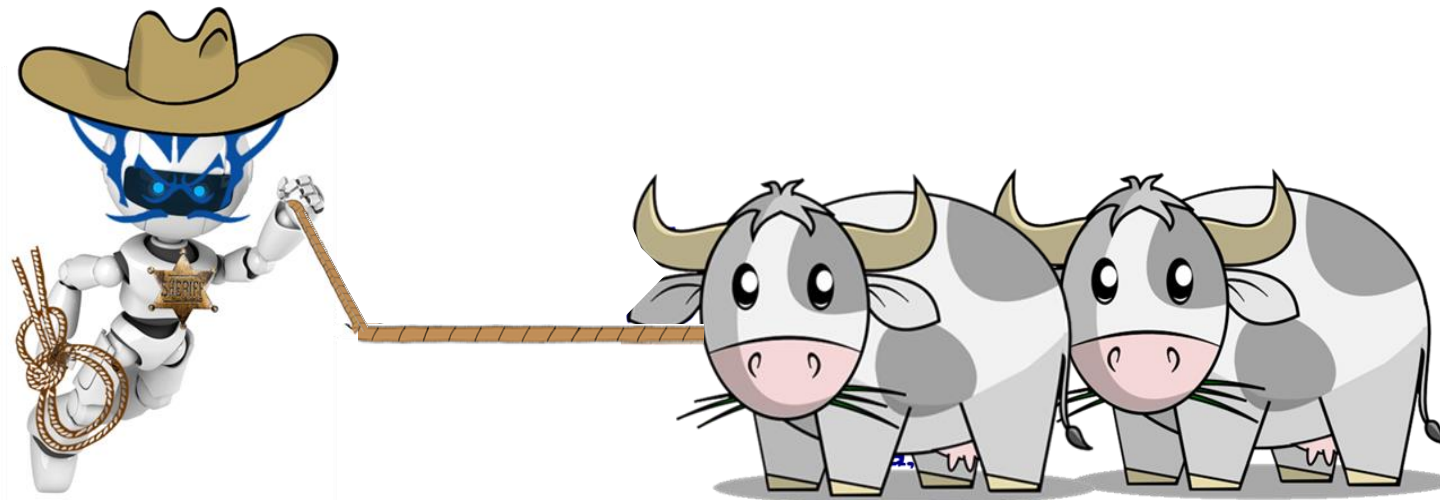


Westfield Wrangle II

January 10th 2016

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Directions

Venue: **Westfield High School (WHS)**
550 Dorian Road
Westfield, NJ

Team Arrival Time, 8:30 - 9:00
Volunteers closer to 8:30, please

Follow Google Maps <https://goo.gl/maps/V5F2QanQsLT2>

or....

Directions

From South – Garden State Parkway to Exit 135. At end of exit, go straight at first light, left at second, and then straight on Central Avenue towards Westfield for 2.4 miles. Make left on Park Street. Park Street turns into Dorian Road; WHS is on the right. Make right onto Trinity or Rahway to access the parking lot.

From North – Garden State Parkway to exit 137. Make right at end of exit towards Cranford. Stay on route 28 (north avenue) through Cranford, and Garwood. After 3 miles, make a left on Central Avenue in Westfield. After a quarter mile make right onto Park Street. Park Street turns into Dorian Road; WHS is on the right. Make right onto Trinity or Rahway to access the parking lot.

Parking

The Westfield High School parking lot is accessible from both Rahway Avenue and Trinity Place.

Additional Parking is available Dorian Road, Rahway Avenue and Trinity Place around the school.

Buses are encouraged to park at Dorian Rd when space is available.

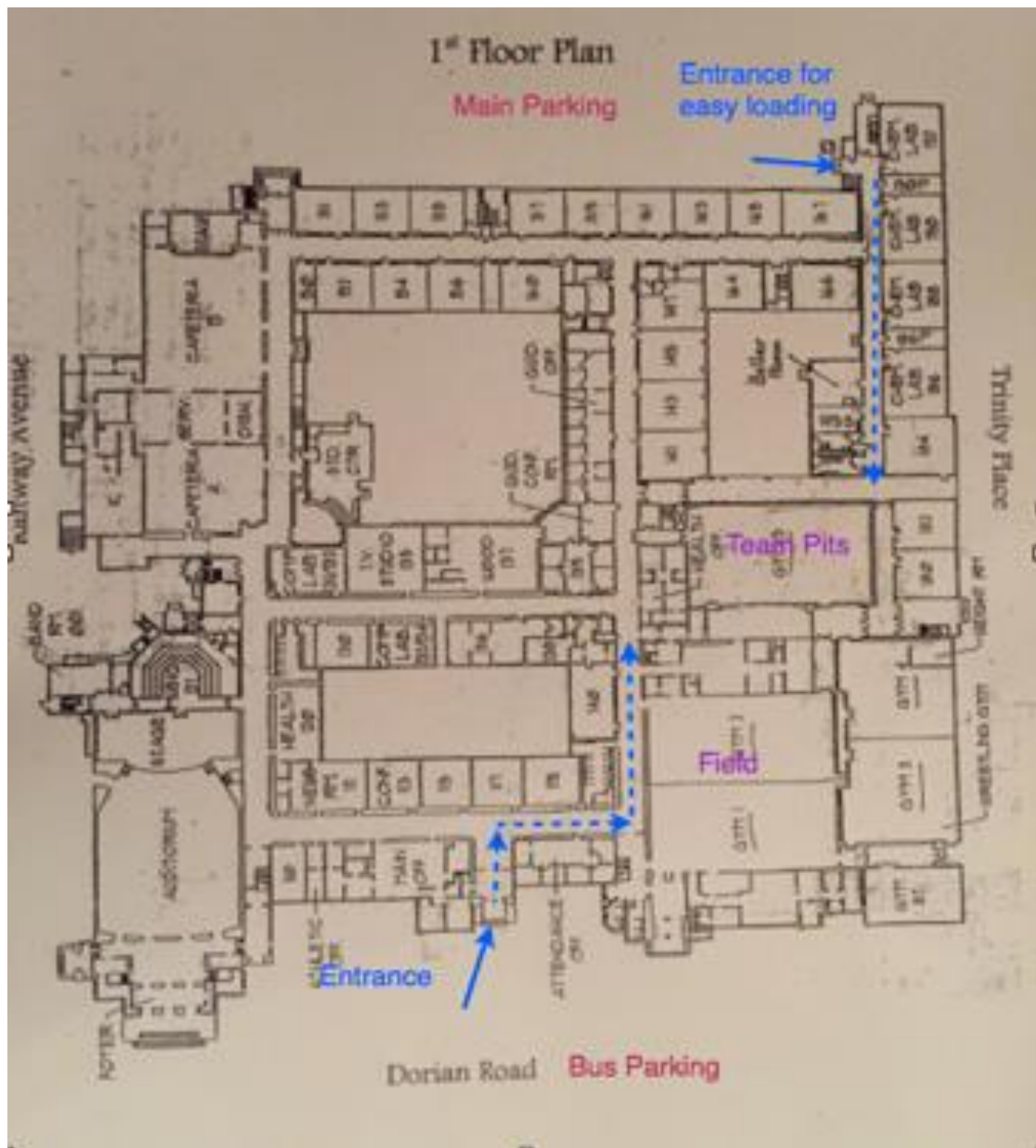
The main doors on Dorian Road and a door off the main parking lot will be open for the teams at 8am. The door off the main parking lot has no steps and easy access to the team pits.

See maps on the next page.

Westfield High School – Event Venue



[Westfield High School - Floor Plan](#)



Schedule

Westfield Wrangle II

7:00 - 7:15		Arrival Time for Start-Up Volunteers
8:30 AM		All Volunteers On Site Early Arriving Teams
9:00 AM		Team Registration and Inspection Stations Fully Open
9:00 - 10:30		Mechanical & Software Inspection
9:30 AM		Judged Interviews Begin
10:45 AM		Match List Available
11:00 AM		Drivers Meeting
11:15 AM		Brief Opening Ceremony
11:15 AM		Start Qualifying Matches (24 Teams: 5 Matches Each) ~30 Matches to be Played [6 Minute Cycle Time]
		13 Matches accomplished before Lunch
12:30 PM		Lunch Break
1:00 PM		Start Final 17 Qualification Matches
2:45 PM		Qualifying Matches Over
3:00 PM		Alliance Selection
3:15 PM		Start SEMI-FINALS 6 Matches Used to Yield 2 Alliances from 4 [48 Minutes]
4:00 PM		Start FINALS 3 Matches Used to Yield the Winning Alliance [24 Minutes]
4:30 PM		Complete FINALS (2 Alliances - One Winning, One Finalist)
5:00 PM		Closing Ceremonies
5:15 PM		Tear Down / Event Complete

Event Information

- **Arrival:** All teams are asked to show up on time and report to Team Registration immediately upon arrival. Only two representatives should report to Team Registration. The rest of the team should go directly to the Pits ...and prepare for Inspection and possible Practice Matches.
- **Late Arrival:** Call 862-432-1526 if you are going to be late. The match schedule will be made final at 10:45 AM. You must pass Inspection by then.
- **Inspection:** Robots must pass the hardware and software inspection before they can participate in any practice on the field. Along with the Judged Interviews, Inspection is your top priority upon arrival.

Field (Software) Inspection: Each team has an Appointment time for Software Inspection. See page 9 of this Packet. Other than your Judged Interview Appointment time, there should be no other top priority for your team than passing Field Inspection. Teams may report to Field Inspection prior to their Appointment to be serviced if there's no line at that time.

For Robot (Hardware) Inspection: Hardware Inspection is performed in the Pit Area on a first come, first served basis. Work it in asap around your Judged Interview and Field Inspection appointments. There is no requirement for a Bill of Materials this year.

- **Overall Schedule:** The day's timing will be in keeping with most competitions this year. Teams are asked to arrive by 9am and the day ends around 5:00.
- **What to Bring:** SAFETY GLASSES for your participants is a top priority. We will expect teams to wear this important safety item. Also, remember to bring a multi-outlet utility strip to assure that you can bring power to a convenient spot on your Pit table.
 - As usual, it is also good to bring spare batteries and other critical parts, as well as a battery charger. It is always smart to mark you materials with your team number so that they don't get mixed with those of another team.
- **Competition Area:** The two Competition Fields are in the Main Gym; Pits are in the Auxiliary Gym which is directly adjacent.
 - When queued for a match, please report to the Queuing Area near the fields. We expect to have a table there, where your robot can be set. From there, a Queuer will take your Drive Team to the playing field at the appropriate time.
 - In order to finish on schedule, including 5 qualification matches for all teams AND the Elimination Matches, it is important that the direction of Queuing be followed efficiently. If, for any reason, your robot is not ready when queued, a team must send a representative.
- **Pit Area:** Your team number will be affixed to the table that has been assigned to you. Space is limited in the pit area. Please stay within the boundaries of your pit and be kind to your neighbors.
 - If you have large banners, displays, or posters, we can find a space somewhere else in the arena for these items. The Pit Areas should stay clear of obstructions to traffic and sight lines to the field. If you are having an issue with your pit, please see an event manager or crew member for immediate assistance.

Additional Information

- **Alliance Selection:** Since this is a Meet, it is the morning Qualification Matches only that pertain toward possible advancement to the state championship via the QP/RP's earned. The afternoon's Elimination Matches are just for fun, for bragging rights and for the experience of getting into Elimination Matches.
- **Alliance Rules:** Several teams have asked if "NJ Scrimmage Rules" apply (i.e., Alliance Captains cannot pick amongst themselves). The answer is YES. Since the Elimination Matches do not influence Advancement, Alliance Captains may not pick amongst themselves. This will provide more balanced competition and some mentoring of the teams that are less strong. Let's help all to grow.
- **Safety :** All team members and their guests are expected to behave in a safe manner and obey all safety rules. Individuals not acting safely will be asked to leave the event premises. Please notify an Event Crew member if you have any safety issues or concerns. Please report any illness or injuries to the Pit Administration table or event organizers.

- **Food - Lunch:** We will be ordering pizzas for lunch. Whole pies (8 slices) are \$12 each. We would appreciate it if you could pre-order, so we can estimate the number of pies needed.

Please submit your team's pre-order through the following link, by Tuesday, January 5:

<http://bit.ly/wrcpreorder>

You can still order whole pizza pies during the morning of the meet.

- **Food – Snacks:** Bagels and donuts for breakfast will be available for purchase. Snacks and beverages will be available for purchase throughout the day.
- **Gracious Professionalism:** Fun is the rule for the day. Please act in accordance with the guidelines of Gracious Professionalism. Ungracious behavior directed at referees or event volunteers will not be tolerated and will be grounds for disqualification from the event. Be kind to your referees, fellow teams, and help them as needed.

FTC Teams

2nd Annual “Westfield Wrangle” MEET

1	3567	Fear the Gear	Lucy Malatesta
2	3983	Highlands Undefined	Rob Clifton
3	4215	Hypnotic Robotics	Edward Houston
4	4328	C'est La Vie	Randy Sherry
5	5398	Robotux	Sergio Martin
6	5406	Optimus Bee	Yasir Taskin
7	5573	RoboCougars	Amir Ressaissi
8	5968	WR That Hertz	V Scipioni
9	6936	CodeRunners	Arco Jeng
10	6980	Bad Wolf	Edward Houston
11	7102	WR Flux Capacitors	V Scipioni
12	8485	CouBOTS	Anna Milewska
13	9129	Demon's Run	Edward Houston
14	9709	Roselle Catholic HS	Michael Kennedy
15	9853	Chatham Cougars	Julianna Ryan
16	9951	Matrix Robotics Club	Khaja Mohideen
17	10300	Robo-Dragons	Kim Pearson
18	10343	WR Positive Charge	K Fishman
19	10582	Emerald Knights	Jim Novotny
20	10603	Wood-Chips	Diane Kulken
21	10785	Governor Livingston HS	Andrew Ziobro
22	10874	ICHS	Marva Burke
23	10919	Fawkes Robotics	Mark Orciuoli
24	10927	Bergan Bees	Erdal Yilmaz

Pre-Assigned Team Appointments for Judging Interviews and Field Inspection



Judged Interview Appt	Judge Room / Panel	Team Number	Team Name	Field Inspection Appt
9:30	1	3567	Fear the Gear	10:15
9:45	1	5398	Robotux	10:30
10:00	1	6936	CodeRunners	10:45
10:15	1	9709	Roselle Catholic HS	9:30
10:30	1	9853	Chatham Cougars	9:45
10:45	1	10785	Governor Livingston HS	10:00
9:30	2	4215	Hypnotic Robotics	10:15
9:45	2	5406	Optimus Bee	10:30
10:00	2	6980	Bad Wolf	10:45
10:15	2	9129	Demon's Run	9:30
10:30	2	10603	Wood-Chips	9:45
10:45	2	10874	ICHS	10:00
9:30	3	3983	Highlands Undefined	10:15
9:45	3	5573	RoboCougars	10:30
10:00	3	8485	CouBOTS	10:45
10:15	3	10300	Robo-Dragons	9:30
10:30	3	10582	Emerald Knights	9:45
10:45	3	10919	Fawkes Robotics	10:00
9:30	4	4328	C'est La Vie	10:15
9:45	4	5968	WR That Hertz	10:30
10:00	4	7102	WR Flux Capacitors	10:45
10:15	4	9951	Matrix Robotics Club	9:30
10:30	4	10343	WR Positive Charge	9:45
10:45	4	10927	Bergan Bees	10:00

ROBOT COMMUNICATION TIPS

As you know this is the first year for the new Android Control System. Students, robots, and events were new to this, but we've done a lot of training this summer and we've had thirteen competitions already this year. Below are some tips and reminders about reducing problems on event day.

Teams that have taken special care in the mounting of their phone, dressing their cables with stress relief and other tips have done the best this year. Here are top 5 Tips from a recent FTA Telecon.

TIP #1 - Based on nationwide input, getting the cabling and mounting right is the #1 action that can best assure your successful day. Refer to examples for proper strain relief. Have your team verify things prior to the big event.

TE>>>> here is an example of the a piece of tape and a zip tie that does a really good job of securing the Mini Type B side of a USB cable:

<https://drive.google.com/open?id=0B0z7bZfPuXgQeIFEMGgyNHliM0k>

TE>>>> here is a phone that has a 90 degree USB OTG adapter connected and uses a rubber band to secure the connector to the phone:

<https://drive.google.com/open?id=0B0z7bZfPuXgQcnc3MnB3ZmprbGs>

TE>>>> here is a module that has the standard USB cable replaced with a 90 degree cable and uses a rubber band to secure the cable from vibrations:

<https://drive.google.com/open?id=0B0z7bZfPuXgQLXVvQTB1WXV3b0E>

TE>>>> here are some examples of 3d printed devices designed to help secure the phone, modules and cables. Note that in one picture we use rubber bands to hold the connector tip to the phone so that we can easily remove the cable and phone if needed (for charging or programming purposes). The orthodontic rubber bands do a good job of holding the cable and connector in place while being easy to remove.

<https://drive.google.com/open?id=0B0z7bZfPuXgQNnNxZHhtWkp0bWs>

<https://drive.google.com/open?id=0B0z7bZfPuXgQZjNSLXpMMXkyaFU>

<https://drive.google.com/open?id=0B0z7bZfPuXgQcjEzekNINnByUDg>

<https://drive.google.com/open?id=0B0z7bZfPuXgQZUISOTNvejMwVkk>

TIP #2 - The Second Tip is to simply turn your robot off for 35 seconds if your encounter a Scan Issue (capacitor problem). This can sometimes occur and is addressed most easily by an alert Drive Team at the Queuing Table and when stepping into the Drivers Box.

TIP #3 - The Third most important Tip to avoid problems is to properly follow the phone naming convention as spelled out in Robot Rule <RS02> Check it. Naming convention errors have been the third most frequent cause of problems for teams.

TIP #4 - The Fourth Tip (which can also be addressed preemptively) is to make sure that version of apps match. The 4th most frequent challenge for teams has been versions of apps not matching / not newest SDK. The solution is to upgrade, or at minimum make them match

TIP #5 - Lastly, the Fifth most frequent issue is Androids connecting to other networks (using remembered groups). At the competition venue we'll work hard with our participants to remove all old networks and shut off anything not in use, especially Bluetooth. All can help with this. Tell your team members, your mentors, and your guests.

Lesser but still notable TIPS:

Both apps on 1 phone OR apps not intended for robotics on the phone.

Solution - Uninstall other apps

Hardware not associated with app properly / app not set as default

Solution - Clear cache of app, and make sure to hit the check-box when scanning for hardware

Phone USB in funky state (mainly driver station). Happens more rarely

Solution -Without going into detail, simply need to reboot the phone

Programming errors

Solution - Mainly teams causing non-interruptible infinite loops. Programmer must address.