



Mount Vernon Site Specific Information
March 3, 2016

Event Schedule

Washington **FIRST** Robotics

"The sport of science, technology, and teamwork."



2016 Pacific Northwest District Week 3 Mount Vernon March 18-20, 2016

Competition Schedule

March 18	
5:00PM-9:30PM	Team Load In and Robot Inspection Begins

March 19	
8:15AM	Pits and Machine Shop Open
8:15 AM-10:00AM	Registration and Robot Inspection Continues Practice Rounds
10:30 AM	Opening Ceremonies
10:45AM-1:00PM	Qualification Matches
1:00PM-1:30PM	Lunch
1:30PM-6:15PM	Qualification Matches
8:00PM	Pits and Machine Shop Close

March 20	
8:00AM	Pits and Machine Shop Open
8:30AM-9:00AM	Opening Ceremonies
9:00AM-10:30AM	Qualification Matches
10:30AM-11:00AM	Alliance Selections
11:00AM-11:30AM	Lunch
11:30AM-2:00PM	Final Rounds
2:00PM-3:00PM	Awards Ceremony
4:00PM	Pits Close

***Schedule subject to change. All times are estimated based on flow of rounds.
See Pit Administration table for updated times.*

Mount Vernon

Is a Friday, Saturday & Sunday event

- Day 1 is Friday
- Day 2 is Saturday
- Day 3 is Sunday

To lessen confusion, the rest of this PowerPoint will talk about Day 1, Day 2 and Day 3

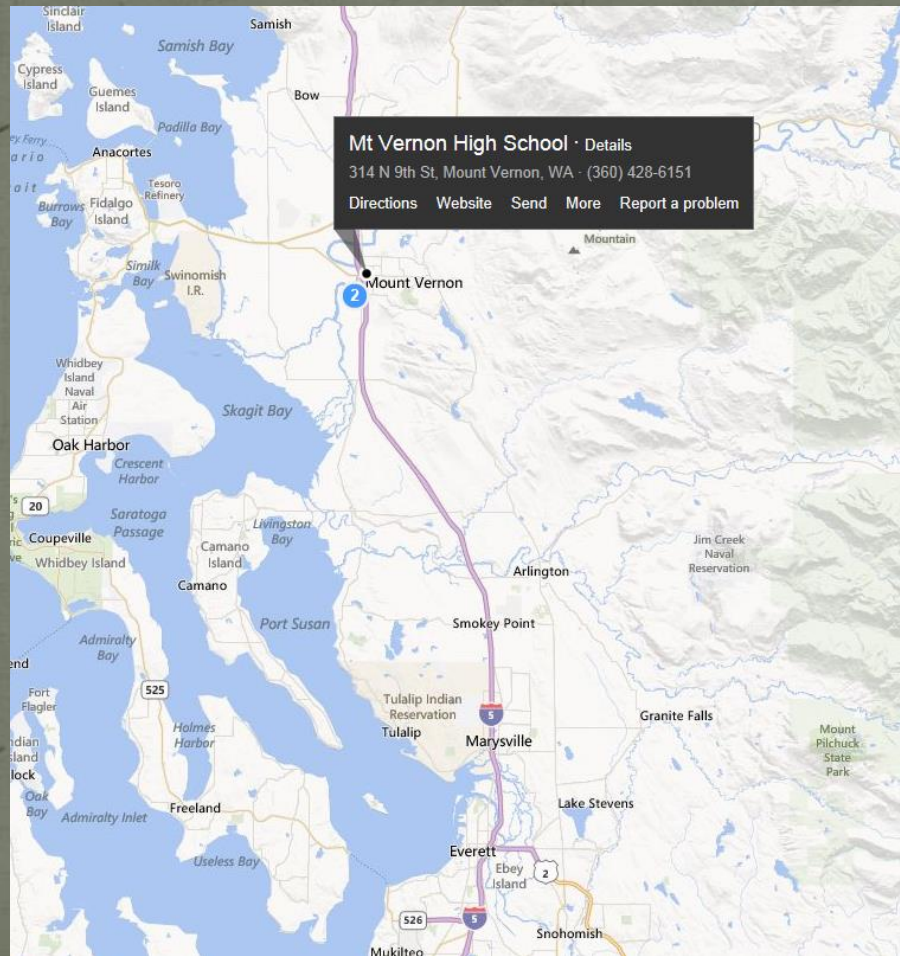
Overview of Presentation

- Event Specific Information
 - General Logistics: Parking/Busses/Food
 - Load in / Load Out
- Walk through of the event
 - Tour of the areas
 - Day 1: Inspection Day
 - Day 2: Qualifications
 - Day 3: Eliminations

Before you arrive!

- We need your main contact while onsite to visit <http://firstwa.org/FRCRSVP> and register
 - By default you will not receive a pit table from us. If you need us to provide you a table, you need to request one when you register on firstwa.org
 - Acknowledge you have 3" wheels
 - Student/Mentor count
 - Your mobile phone number
- Please do this by **Friday, 3-11-16** (if you complete this form after 3-11-16 you may not receive a table)

Mount Vernon High School



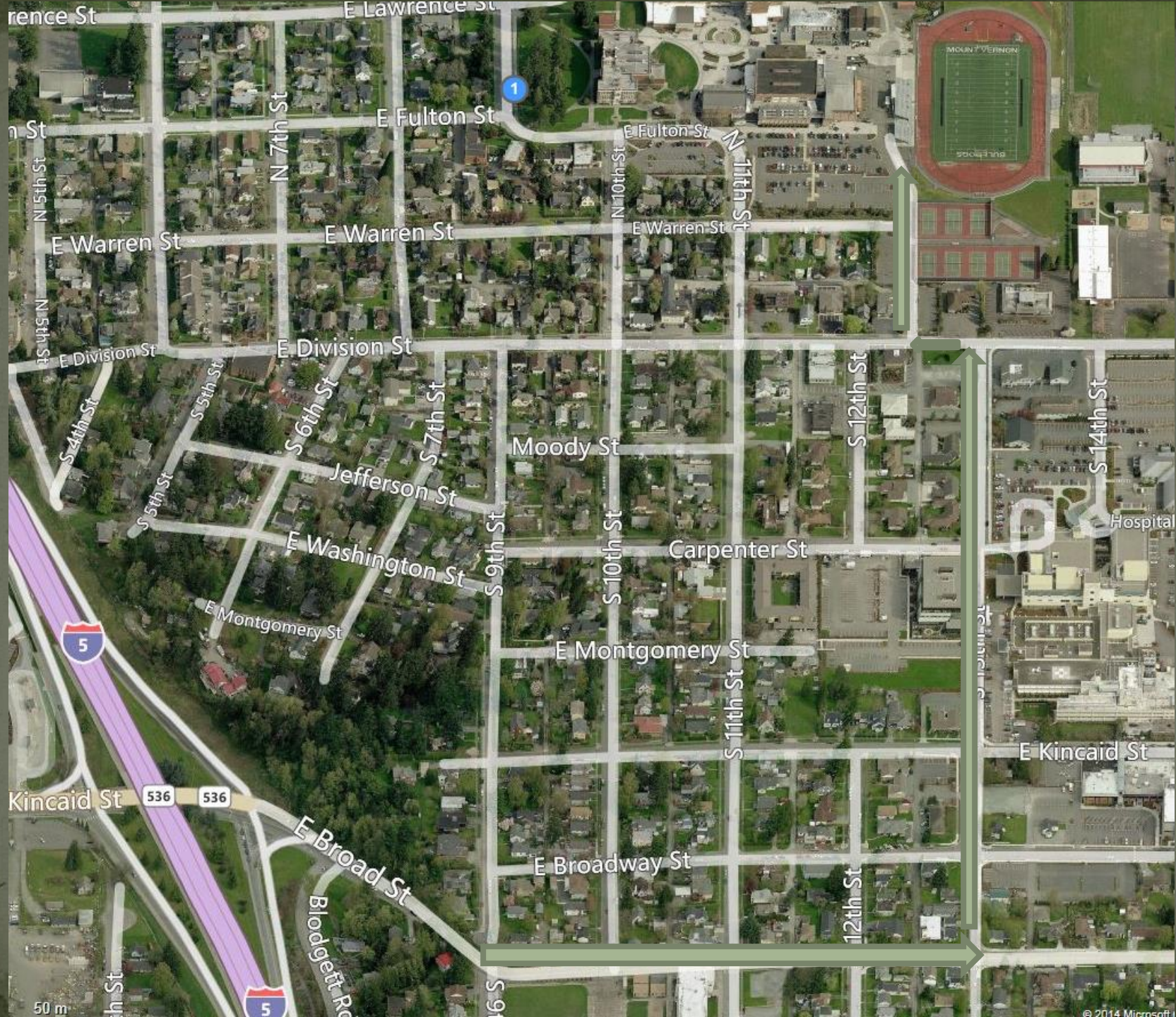
Friday Arrival

- Please arrive after 5:00 pm
- Please do not arrive before 5:00 pm!
- Please do not show up early!
 - We will be setting up prior to 5:00 pm and won't be ready

Logistics: Arriving at MVHS

314 N 9th St, Mount Vernon, WA





Unloading



Logistics: Parking

Bus Parking

Parking



Trailer Parking

- There is no trailer parking for you on Day 2
- You may park with a trailer on Day 3 in the North lot. Please consume as few parking spots as possible.

Logistics: Bus Transportation

- You may park busses in the North lot

Bus Unloading – Right Lane Only



Logistics: Food

- Concessions will be open the evening of Day 1 all day Days 2 and 3
- Bringing Food?
 - You may bring food into the venue
 - The cafeteria will be open at 7 am both Days 2 & 3
- Pre-order Lunches?
 - Will not be available
 - The next slide will list some areas to get food nearby
- Clean up after yourself

Restaurants within 4 miles of MVHS

- Chuck Wagon, 800 N. 4th St., Mount Vernon
- Denny's, 300 E. College Way, Mount Vernon
- Dairy Queen, 1701 Freeway Dr., Mount Vernon
- Burger King, 1812 Freeway Dr., Mount Vernon
- IHop 2001 Freeway Dr., Mount Vernon
- Skippers, 325 E. College Way, Mount Vernon
- Arby's 1822 Freeway Dr., Mount Vernon
- Royal Star Buffet, 2300 Freeway Dr. Mount Vernon
- El Gitano, 1810 Riverside Ave. Mount Vernon
- The Food Co-Op' Deli, 202 S. 1st St., Mount Vernon
- Rachawadee Thai Café, 410 W. Gates St., Mount Vernon
- Mexico Café, 1320 Memorial Hwy, Mount Vernon
- Reverle BBQ, 1300 S. 2nd St. Mount Vernon
- The Thai House, 616 S. 1st St., Mount Vernon

About the pit Power

- Pit power is limited. We are putting up to 6 teams on a single 20 amp circuit
 - Power generator is shut down overnight
 - Consider charging your batteries overnight at home / hotel
 - (Remember: 12 rounds may require several batteries)
 - No compressors or other large motors
 - Limit 400 watts per team, 2400 watts per 6 team Power Alliance
 - Lighting should go with low wattage
- High school gyms have very little power
 - You may NOT use any outlets in the gym
 - The game equipment uses all available power
 - We will remove and confiscate any equipment from gym outlets until after awards ceremony on Day 3. **You have be warned!**

Schedule Overview: Whole Event

- Day 1: Team Arrival and Inspections
 - Driver Meeting will be at 7:30 pm **Day 1**
- Day 2: Qualification Matches
- Day 3 AM: Qualification Matches
- Day 3 PM: Final Rounds / Team Departures



Load-In and Inspection

Day 1: 5pm – 9:30pm

- Safety glasses are mandatory. You will not be allowed into the area without them.
- Follow instructions from onsite staff.
- You may NOT park in the loading area. The driver MUST stay with the vehicle. Drop it and park in designated area. Staff your unload team appropriately to make this happen.
- Bring a cart! You will need a cart with at least 3" diameter wheels. Our cable protection bumps are 2" in height. We recommend 4" or larger wheels.
- Your FIRST and Only goal on Day 1 is passing inspection!

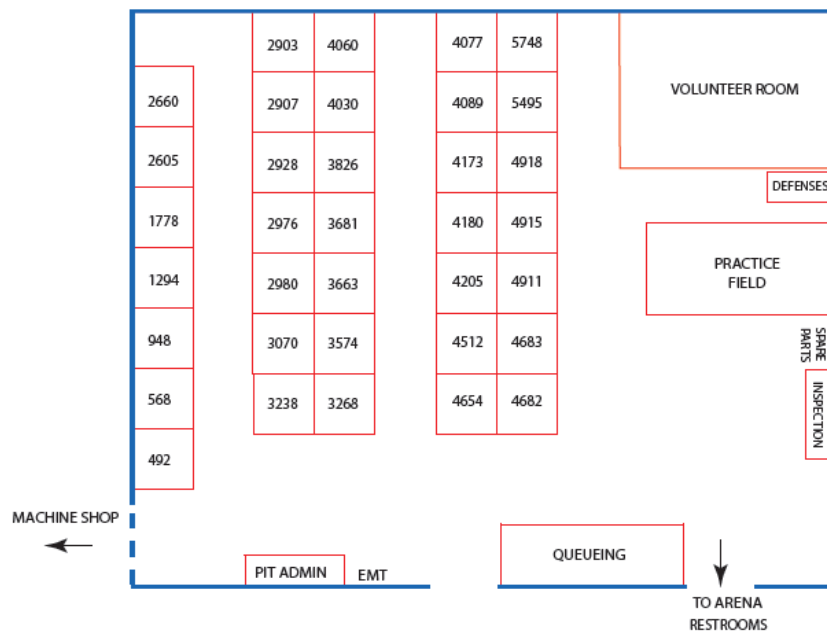
Day 3: Load Out

- No parking in load out area.
- Load out during elimination rounds on Day 3 is fine

Pit Layout



2016 PNW FIRST ROBOTICS MOUNT VERNON DISTRICT EVENT



492	Titan Robotics Club	International School	Bellevue, WA	3681	Robo-Raiders	Nathan Hale High School	Seattle, WA
568	Nerds of the North	Dimond, East, Bartlett, Steller, Polaris K-12 School	Anchorage, AK	3826	Sequim Robotics Fed "SRF"	Sequim Senior High	Sequim, WA
		Newport Senior High School	Bellevue, WA	4030	NullPointerException	Ingraham High School	Seattle, WA
948	NRG	Eastlake High School	Sammamish, WA	4060	S.W.A.G	W F West High School	Chehalis, WA
1294	Top Gun	Mountlake Terrace HS	Mountlake Terrace, WA	4077	M*A*S*H	Edmonds Woodway High School	Edmonds, WA
1778	Chill Out	Sehome High School	Bellingham, WA	4089	Stealth Robotics	Cedarcrest High School	Duvall, WA
2605	Seahome Seamonsters	Marysville Arts and Tech High School	Tulalip, WA	4173	Bulldogs	Mount Vernon High School	Mount Vernon, WA
2660	PengBots	Arlington High School	Arlington, WA	4180	Iron Raiders	Roosevelt High School	Seattle, WA
2903	NeoBots	Auburn Mountainview High School	Auburn, WA	4205	ROBOCUBS	Sedro Woolley Senior High School	Sedro Woolley, WA
2907	Lion Robotics	Ballard High School	Seattle, WA	4512	BEARbots	Cascade High School	Everett, WA
2928	Viking Robotics	Skyline High School	Sammamish, WA	4654	Mountaineers	Mount Baker Senior High	Deming, WA
2976	Spartabots	Oak Harbor High School	Oak Harbor, WA	4682	Brave Bots	Bishop Blanchet High School	Seattle, WA
2980	The Whidbey Island Wildcats	Shorewood High School	Shoreline, WA	4683	Full-metal Robotics	Lakewood High School	Marysville, WA
3070	Team Pronto	Anacortes High School	Anacortes, WA	4911	CyberKnights	King's Schools	Seattle, WA
3238	FRED	Inglemoor HS	Kenmore, WA	4915	Spartanics	Bainbridge High School	Bainbridge Island, WA
3268	Vahallabots	Highline High School 4-H	Burien, WA	4918	The Roboctopi	Port Townsend High School	Port Townsend, WA
3574	HIGH TEKERZ	Cedar Park Christian Schools	Bothell, WA	5495	Aluminati	Snohomish High School	Snohomish, WA
3663	CPR - Cedar Park Robotics			5748	Adna Pirates	Adna Middle/High School	Adna, WA

**layout is subject to change

Wheel requirements for carts, boxes, and anything rolling

- Our venues will have power cord covers (aka Yellow Jackets)
 - Our yellow jackets are 2" tall
- Your FRC robot cart MUST have > 3 " diameter wheels
 - Wheels must be in good working order. No damaged or stuck wheels. Soft rubber. No hard plastic or steel tread wheels.
 - Maximum weight for your carts, tool boxes, etc will be 50 lbs per inch of wheel size (1 cart, 4 x 3" wheels, 600lbs max)
- Under no circumstances will we allow wheels less than 3" in diameter on ANY equipment / boxes / carts
 - Very high likelihood of damage to floors
 - You won't clear our cable management equipment
- All wheels must be non marking rubber or synthetic wheels
 - No steel wheels. No sharp wheels.

Day 1 is Inspection Day

- Your primary goal for Day 1 is to get your robot to pass inspection.
- This is a short and intense activity. Preparation is the key to making it a good day.
- Asking for help is a good thing. Providing another team help is the highest honor in FIRST. Don't be bashful.
- Teams with lower numbers have experience.

Day 1 Pits Open: 5pm

- At exactly 5 PM we intend to open the pit area for everyone.
- You must wait for clearance to enter the building.
- You MUST have safety glasses on your face!
- We can not provide safety glasses for team members. You MUST bring your own.

Do less better

- These are smaller events.
- You are onsite for less time.
- Consider travelling light!
 - Less setup time
 - More room in your pits
 - Save the big pit displays for District Championship!

Day 1 Team Registration: 5PM

- Your lead mentor must visit the pit admin desk starting at 5PM.
- Bring required forms
 - Team Roster printed from TIMS with hand written additions if needed.
 - Consent forms for all team members (students and adults) who aren't in TIMS/STIMS

Who to bring on Day 1

- You really want your drivers and core robot builders and mentors on Day 1.
- Depending on your teams logistics, you might consider having a partial team on Day 1 and the whole team Day 2 and Day 3
- Day 1 is NOT a good spectator day
 - It is ALL in the pits Day 1.

Veteran Teams

- Bring Spare Parts
- Please consider bringing unused sensors, motors, control units, and hardware for loan to other teams.
- Many teams need help with programming
 - Please be ready to help out!

Machine Shop Open: 5PM

- We have a volunteer machine shop onsite to help you fabricate replacement parts.
- The shop has small mills, lathes, and various other tools.
- ONLY AUTHORIZED MACHINE SHOP VOLUNTEERS MAY USE THESE TOOLS!
- We have excellent volunteer machinists. However, there are limits to what they can do for your team.
- We have a TIG welder.
- The machine shop has request forms for your team. It will be located near the loading ramp on the arena floor.
- In general, the machine shop will NOT loan you tools.

Day 1

Inspection Process: 5PM

- Inspection involves 4 steps
 - Size and weigh-in at the inspection station
 - Control system inspection at the CSA station
 - Physical robot inspection at your pit starting 5PM
 - Connection to the field controller at least once Day 1 morning
- Inspectors are your friend! Inspectors are here to help get you on the field safely and fairly. They will help you pass inspection.

Starting the inspection process

- You may enter the weight / size line at any time after 5PM.
- After weight and size, stop at the CSA desk for the control software check.
- You may sign up at the Inspection desk for an in-pit inspection appointment starting at 5 PM. We invite you to sign up early.

Inspection Tips

- It is rare for a robot to pass inspection on the first attempt. It is an iterative process.
- PLEASE: Get inspected early, even if you are not ready. You might have an issue that takes time to fix.
- All teams must connect to field as part of inspection.
- You MUST pass inspection to earn qualifying points.

WPA Key Assignment

- Your robot radio (WPA Key) must be reprogrammed at each event you attend.
- This is required to connect & compete at the field.
- A kiosk (with instructions) is provided for you to program your radio.
 - The kiosk will be located at inspection or pit admin

Connecting to the field: The Final Step

- If you run a practice match during Day 2 morning, the field computer will remember that as your last step of the inspection process.
- If you are unable to make a practice match, we are going to ask you to take your robot and control system out to the field for a quick 5 minute test to ensure your system can connect to the field. Your robot will not be on the field, we will simply connect it to the field while sitting on your cart.
- THIS IS A MANDATORY STEP!
- Many simple issues are solved by doing this on Day 1 that would otherwise cause you problems when it really counts!
- Our goal is for you to connect to the field by 10 AM Day 2

Practice Rounds & field access for measuring and calibration : Day 2

- The field will be open for 30 min starting at 8:20 am for measuring and calibration (per rule 5.5.8)
- Practice matches are scheduled, and will run from 9:00 AM to 10:15 AM
- Practice matches will be on a first come first served bases this year. We will **NOT** be running scheduled matches
- You have to pass inspection to run a practice match.
- Priority will always be given to teams who have not been on the field at least once. Be gracious and professional if you get bumped for a higher priority team.

Word to the Wise

- Day 1 is no longer the final build day. It is now pass inspection day!
- Your team had 6 hours of robot access during the week prior to your District event. Use it VERY wisely.
- Do not be bashful about asking for help. We have all been there before.

End of Day 1

- The pits close at 9:30PM on Day 1.
- You **MUST BE OUT OF THE BUILDING** before 9:30PM. The building closes at 9:30PM.
- We dislike doing it, but we will come lead you out of the building starting at 9:25PM. No exceptions.

Thanks for viewing

- You can contact arime@firstwa.org with additional questions
- These slides will be posted on the Mount Vernon event page on firstwa.org