



Auburn Mountainview Site Specific
Information February 17, 2016

Event Schedule

Washington **FIRST** Robotics



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

2016 Pacific Northwest District Week 1 Auburn Mountainview March 3-5, 2016

Competition Schedule

March 3	
5:00PM-9:30PM	Team Load In and Robot Inspection Begins

March 4	
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 5	
8:00AM	Pits and Machine Shop Open
8:30AM-9:00AM	Opening Ceremonies
9:00AM-11:30AM	Qualification Matches
11:30AM-12:00PM	Alliance Selections
12:00PM-12:30PM	Lunch
12:30PM 3:00PM	Final Rounds
3:00PM-4:00PM	Awards Ceremony
5:00PM	Pits Close

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

Auburn Mountainview

Is a Thursday, Friday, Saturday event

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

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

Overview of Presentation

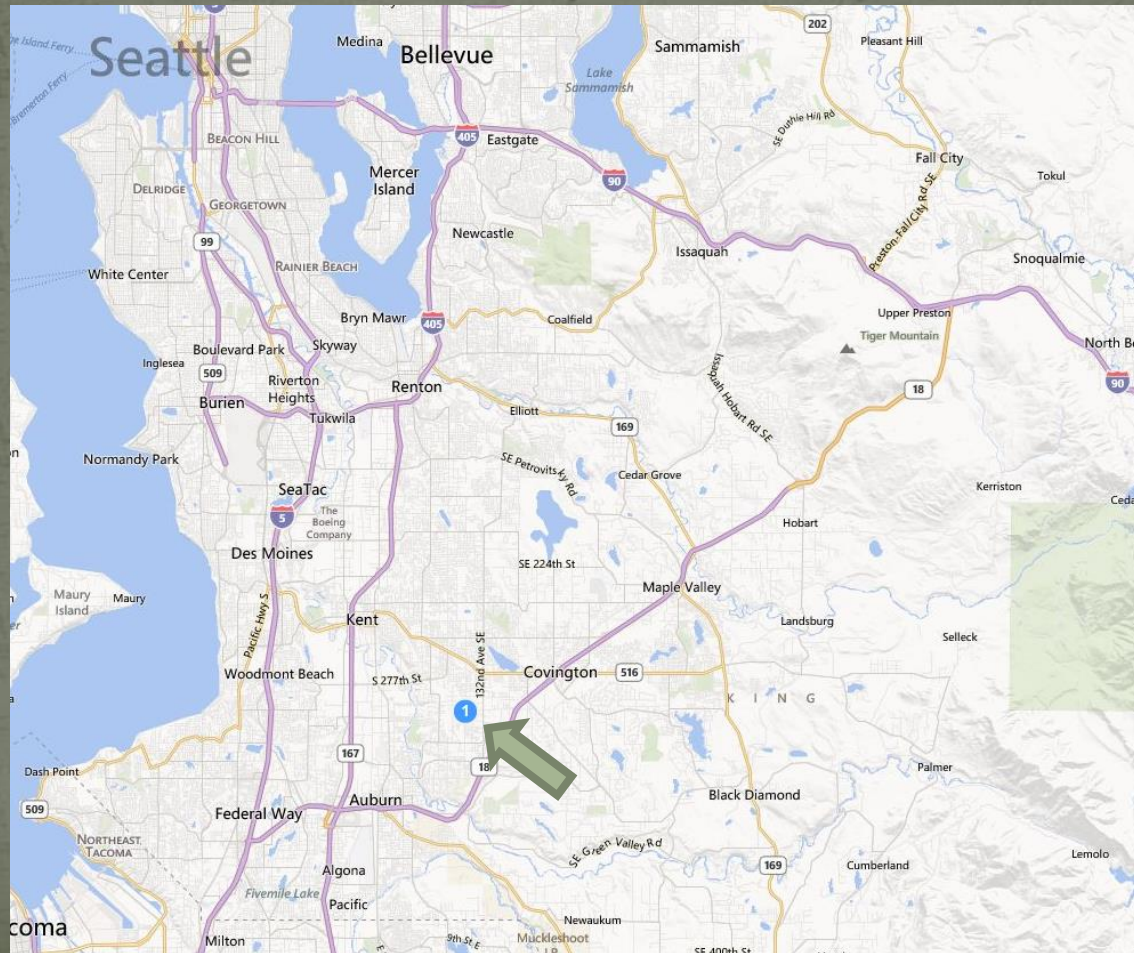
- Event Specific Information
 - General Logistics: Parking/Busses/Food
 - Load in / Load Out
- Walk through of the event
 - Tour of the areas
 - Thursday: Inspection Day
 - Friday: Qualifications
 - Saturday: Eliminations

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 **Monday, 2-22-16** (if you complete this form after 2-22-16 you may not receive a table)

Auburn Mountainview High School

28900 124th Ave Se, Auburn, WA



Logistics: Arriving at AMHS

28900 124th Ave Se, Auburn, WA



Directions for loading in

- Please don't arrive before 4:15 pm Day 1
- Pits won't open until 5pm
 - We are setting up the room from 3pm to 5pm



Logistics: Parking

- Parking at an open school takes planning.
- Day 1: after 4pm parking is available
- Day 2: It's complicated – Next Slide!
- Day 3: parking is available



Day 2 Arrival

- Please arrive at the venue **after 8:15 am**
- **Please do not arrive before 8:15 am!**
- **Please do not show up early!**
 - The school is open, classes start at 8:05 am
- Your bus is going to make traffic issues before 8:15 am!
 - The school's busses are using the bus lane before 8:15 am
- If you find that you are early, feel free to stop at the local Starbucks for a cup of coffee ☺

Day 2 Parking

- Carpool! Don't bring extra vehicles.
- We suggest dropping your team west of the pits.
- One driver per vehicle should then proceed to the offsite parking. A shuttle will run between the offsite parking and the school from 8:15 & 10:15 am, and 4:30 & 6:30 pm
- There will also be a sign up at Pit Admin for those needing shuttle service during lunch
- Parking at the school building will be available starting at 3pm.

Day 2 Parking

Parking is available at the ballfield

14608 SE 288th St, Kent, WA 98042



Trailer Parking

- There is no trailer parking for you on Friday
- You may park with a trailer on Saturday

Logistics: Bus Transportation

- After 8:15 am, busses and large vans can drop students off behind the pits using the schools bus lane.
- THIS IS NOT BUS PARKING!
- We recommend the Safeway parking lot north on 132nd

Logistics: Food

- Concessions will be open Day 2 and Day 3
- Bringing Food?
 - Cafeteria is available at 1pm
 - This is an open school, please be respectful
- Pre-order Lunches?
 - Yes, we will be selling pizza's. There is an order form up on firstwa.org
 - Bring your order form Day 1 when you load in and turn it in at concessions.
 - No food is allowed in either gym, water only. The commons is available for eating
- Clean up after yourself

Logistics Onsite

- All team members, students and mentors, will be wearing wrist bands to identify them as FIRST participants. Please insure that everyone who is allowed into your pit area is wearing this band.

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 Saturday. **You have be warned!**

Schedule Overview: Whole Event

- Day 1: Team Arrival and Inspections
 - Driver Meeting will be at 7:30 pm **Thursday**
- Day 2: Qualification Matches
- Day 3 AM: Qualification Matches
- Day 4 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!

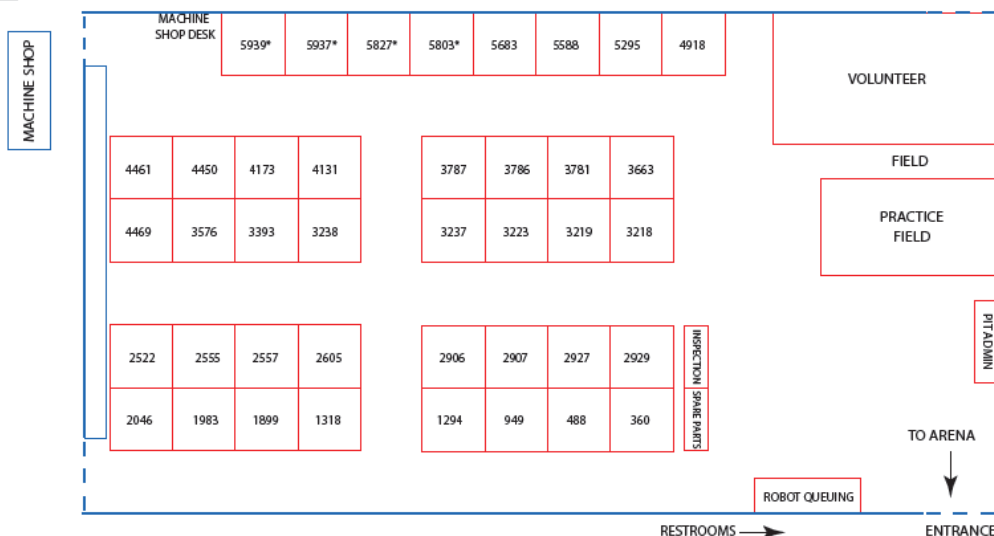
Saturday: Load Out

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

Pit Layout



2016 PNW FIRST ROBOTICS AUBURN MOUNTAINVIEW DISTRICT EVENT



360 The Revolution
488 Team Xbot
949 Wolverine Robotics
1294 Top Gun
1318 Issaquah Robotics Society
1899 Saints Robotics
1983 Skunk Works Robotics
2046 Bear Metal
2522 Royal Robotics
2555 RoboRams
2557 SOTAbots
2605 Seahome Seamonsters
2906 Sentinel Prime Robotics
2907 Lion Robotics
2927 Phi Rho Techs
2929 JAGBOTS
3218 Panther Robotics
3219 TREAD
3223 Retrobotics
3237 Bionic Braves
3238 FRED

Bellarmine Preparatory School
Franklin High School, xbot robotics
Bellevue High School
Eastlake High School
Issaquah High School
Interlake Senior High School
Raisbeck Aviation High School
Tahoma Senior High School
Tyrnwood High School
Wilson
Science and Math Institute
Sehome High School
Spanaway Lake High School
Auburn Mountainview High School
Graham Kapowsin High School
Emerald Ridge High School
Bonney Lake high school
Auburn Senior High School
C. Kitsap, Olympic, Klahowya Sec.
Bethel High School
Anacortes High School

Tacoma, WA
Seattle, WA
Bellevue, WA
Sammamish, WA
Bellevue, WA
Seattle, WA
Maple Valley, WA
Lynnwood, WA
Tacoma, WA
Tacoma, WA
Bellingham, WA
Spanaway, WA
Auburn, WA
Graham, WA
Puyallup, WA
Bonney Lake, WA
Auburn, WA
Silverdale, WA
Spanaway, WA
Anacortes, WA

3393 Horns of Havoc
3576 Clover Park Warriors
3663 CPR - Cedar Park Robotics
3781 Carnival 4-H Robotics
3786 Chargers
3787 Wild Robotcats
4131 Iron Patriots
4173 Bulldogs
4450 Olympia Robotics Federation
4461 Ramen
4469 R.A.J.D.
4918 The Roboctopi
5295 Aldernating Current

5588 Holy Names Academy
5683 RAVE
5803* Apex Robotics
5827* Code Purple
5937* MI-Robotics
5939* Lakes Lancers

Puyallup High School
Clover Park High School
Cedar Park Christian Schools
Franklin-Pierce, WSU Pierce County 4-H
Kentridge High School
WSU - Grays Harbor County 4-H
Liberty Sr High School
Mount Vernon High School
Capital, Avant, Olympia High School
Mount Rainier High School
Thomas Jefferson High School
Port Townsend High School
Shelton, 4-H Youth Mason County,
North Mason, Oakland Bay Junior
Holy Names Academy
Auburn Riverside High School
Seattle Christian Schools
Lake Washington High School
Mercer Island High School
Lakes High School

Puyallup, WA
Lakewood, WA
Bothell, WA
Tacoma, WA
Kent, WA
Westport, WA
Renton, WA
Mount Vernon, WA
Olympia, WA
Des Moines, WA
Auburn, WA
Port Townsend, WA

Shelton, WA
Seattle, WA
Auburn, WA
Seatac, WA
Kirkland, WA
Mercer Island, WA
Lakewood, WA
*Rookie Teams

**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 Thursday

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

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 Friday 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 insure 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 Friday

Practice Rounds: Day 2 8:30 AM

- Practice matches are scheduled, and will run from 8:30 AM to 10:00 AM
- You have to pass inspection to run a practice match.
- It is very common for teams not to be ready for their scheduled match in the mornings. We will accept teams on a first come/first served basis who wish to take an unscheduled practice round. Check in with the lead Queue Manager to get on the list.
- Priority will always be given to teams scheduled and/or 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 attending

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