



# ***FIRST<sup>®</sup>*** ***WASHINGTON***

Auburn Mountinview Site Specific  
Information  
February 20, 2018

DESTINATION:

**DEEP  
SPACE**

A stylized illustration of a rocket launch is integrated into the letter 'A' of the word 'SPACE'. The rocket is orange and grey, with a plume of smoke at its base. The background is a dark blue gradient with white stars.

Presented By





**2019 Pacific Northwest District  
Week 2 Auburn Mountainview  
March 8-10**

**Competition Schedule**

<b>March 8</b>	
5:00PM-9:00 PM	Pits Open
<b>March 9</b>	
8:00AM-10:30AM	Pits Open, Practice Rounds, Inspections
10:30AM-11:00AM	Opening Ceremonies
11:00AM-1:00PM	Qualification Matches
1:00PM-2:00PM	Lunch
2:00PM-7:30PM	Qualification Matches
8:00PM*	Pits Close
<b>March 10</b>	
8:00AM	Pits Open
9:00AM-9:30AM	Opening Ceremonies
9:30AM-11:30AM	Qualification Matches
11:30AM-12:00PM	Alliance Selections
12:00PM-1:00PM	Lunch
1:00PM-4:00PM	Final Rounds
4:00PM-4:45PM	Awards Ceremony
5:15 PM*	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 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



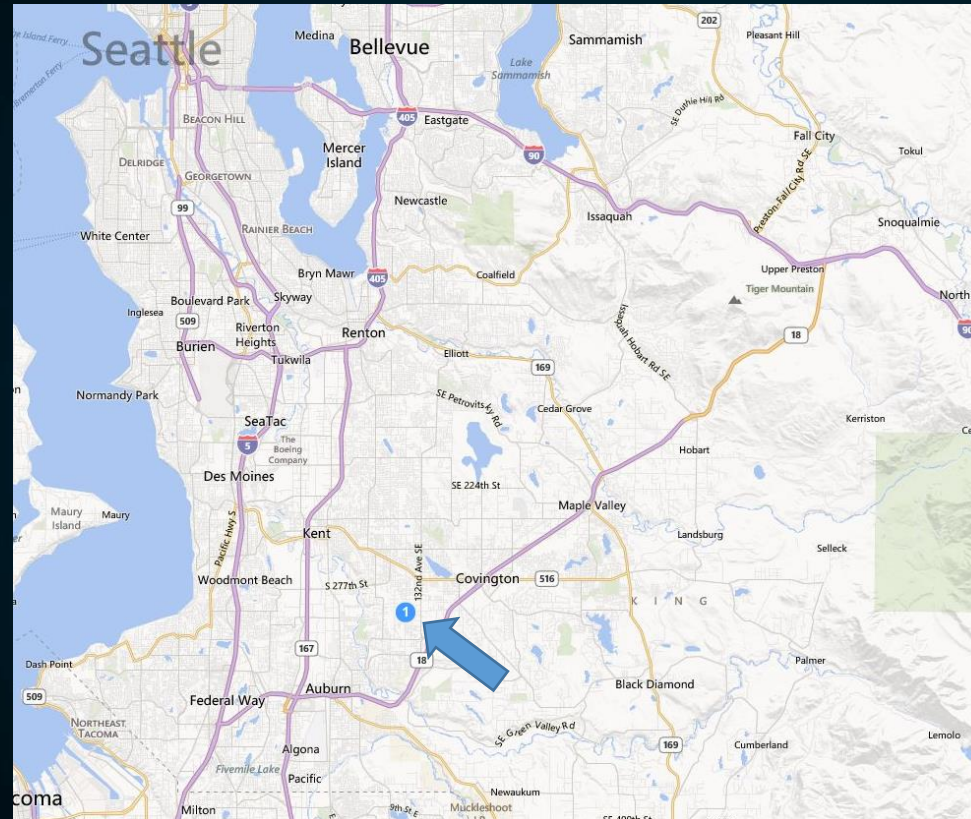
# Before you arrive!

- 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 **Monday, 3-19-18** (if you complete this form after 3-19-18 you may not receive a table)



# Auburn Mountainview High School

28900 124th Ave Se, Auburn, WA



# Day 1 Arrival

- Please don't enter the building before 5:00 pm
- You will not be allowed in the building before 5:00 pm!
- Please do not come in early!
  - We will be setting up prior to 5:00 pm and won't be ready





# Logistics: Arriving at AMHS

28900 124th Ave Se, Auburn, WA





# Directions for loading in & parking Day 1

- You may start lining up to drop your stuff off at 4:15 Day 1 **\*\*please don't arrive early**
- Pits won't open until 5pm
  - We are setting up the room from 3pm to 5pm
- Available parking for **Day 1** shown below



# Logistics: Parking

- Friday after 4pm parking is available.
- Saturday & Sunday: .You may park onsite



# Day 2 & 3 Arrival

- Day 2 & 3 doors will open at 8:00 am
- If you arrive early, please be prepared to wait outside

## Trailer Parking

- Day 3: you may park trailers in the bus lanes.



# Logistics: Bus Transportation

- Day 2 & 3 after 8 am, **busses** and large vans can drop students 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 1 (with limited options) Day 2 & 3
- Bringing Food – The commons will be available to set up for lunches
  - You will not be allowed to plug in crock pots to keep food warm.
- Pre-order Pizza's will be available for teams.
  - Order before pits close the day before
  - Turn in orders at the concession stand
- **Note: please do not plan to use power onsite to heat food or keep it hot. We are using all of the power in the building and your crock pots etc will get unplugged.**
- Clean up after yourself



# About the pit Power

- Pit power is limited. We are putting up to 8 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 or around 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 been warned!**



# Safety Glasses

- Teams are expected to provide safety glasses for their team members and spectators to use in the pits
- The safety glasses FIRST Washington brings are for the public, not for teams or spectators affiliated with teams
- No safety glasses will be given out Day 1. **Have them with you and accessible when you load in, you will not be allowed in the pits without them.**
- We will not hand out safety glasses to anyone wearing a team shirt
- We will be very diligent about collecting the safety glasses when spectators leave the pits



# 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

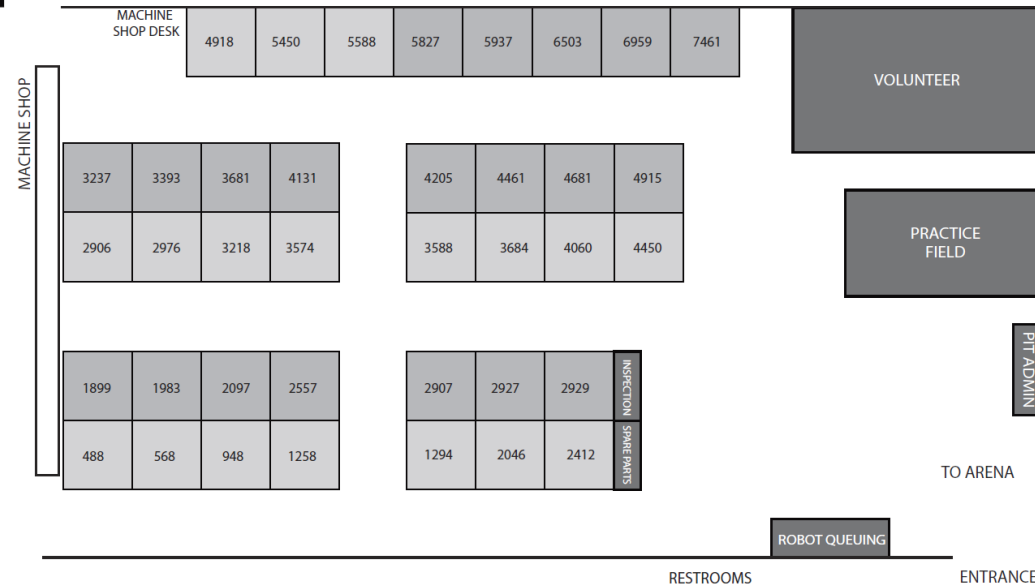
## Day 1: 5pm – 9:00pm

- 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!





# 2019 PNW FIRST ROBOTICS AUBURN MOUNTAINVIEW DISTRICT EVENT



## EVEN TEAMS

488	Team XBot	Seattle	WA
568	Nerds of the North	Anchorage	AK
948	NRG (Newport Robotics Group)	Bellevue	WA
1258	SeaBot	Seattle	WA
1294	Top Gun	Sammamish	WA
2046	Bear Metal	Maple Valley	WA
2412	Robototes	Bellevue	WA
2906	Sentinel Prime Robotics	Spanaway	WA
2976	Spartabots	Sammamish	WA
3218	Panther Robotics	Bonney Lake	WA
3574	HIGH TEKERZ	Seattle	WA
3588	The Talon	Renton	WA
3684	Electric Eagles	Seattle	WA
4060	Bearcat Robotics	Chehalis	WA
4450	Olympia Robotics Federation	Olympia	WA
4918	The Roboctopi	Port Townsend	WA
5450	SHREC	Saint Helens	OR
5588	Reign Robotics	Seattle	WA
6350	J.E.D.I.	Enumclaw	WA

## ODD TEAMS

2097	The Binary Circles	Redmond	WA
3681	Organized Chaos	Centralia	WA
7461	Iron Dragon	Seattle	WA
1899	MI-Robotics	Mercer Island	WA
1983	Code Purple	Kirkland	WA
2557	Spartonics	Bainbridge Island	WA
2907	Murphy's Law	Everett	WA
2927	Ramen	Seattle	WA
2929	ROBOCUBS	Sedro Woolley	WA
3237	Iron Patriots	Renton	WA
3393	Robo-Raiders	Seattle	WA
4131	Horns of Havoc	Puyallup	WA
4205	Event Horizon	Spanaway	WA
4461	JAGBOTS	Puyallup	WA
4681	PI Rho Techs	Graham	WA
4915	Lion Robotics	Auburn	WA
5827	SOTAbots	Tacoma	WA
5937	Phoenix Force Robotics	Tukwila	WA
6503	Skunk Works Robotics	Seattle	WA
6959	Saints Robotics	Bellevue	WA



Odd Even

Map reference only, not in correct proportion





# 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.
- Please be prepared to be flexible. This is our first time in this space and our volunteers will be working hard to get everyone in the building as soon as possible.
- 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 **The expectation is that all of your students and mentors have registered and are on the printed roster. You should have very few printed consent forms.**





# Who to bring Day 1

- You really want your drivers and core robot builders and mentors Day 1.
- Depending on your teams logistics, you might consider having a partial team Day 1 and the whole team Day's 2 & 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.
- Because of the weather, many teams may not quite be done with their robot. Please look around and if you see a team in need, take time to help get their robot ready to compete!



# 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

# Word to the Wise

- Day 1 is no longer the final build day. It is now pass inspection day!
- **Remember** Your team has 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 9:00PM on Day 1.
- You **MUST BE OUT OF THE BUILDING** before 9:00PM. The building closes at 9:00PM.
- We dislike doing it, but we will come lead you out of the building starting at 8:55PM. No exceptions.

# 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.



# Connecting to the field: The Final Step

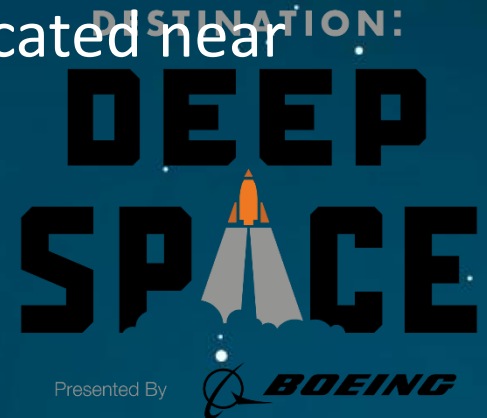
- If you run a practice match during Day 2 morning, the field computer will remember that as your last step of the inspection process.
- If you are unable to make a practice match, we are going to ask you to take your robot and control system out to the field for a quick 5 minute test to insure your 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 10:30 AM Day 2.





# Machine Shop Open: Day 2

- 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 3: Load Out

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



# Workshops and Quiet room

- 5588 will be hosting a quiet room at the event.
  - Room number will be posted at Pit Admin
  - Students may sign up for 10 minute periods at pit admin (up to 10 students at a time) to remove themselves from the stress of competition. Not a hangout room, but focused on getting ready to return to the loud venue. 5588 will provide room monitors.
- 1778 will be hosting a Buisness Round Table on Saturday at 2:30 pm
  - Room number will be posted at Pit Admin

# \$5,000 Scholarship Opportunity



- BECU Foundation is looking for students with demonstrated commitment to community service and leadership – aka *FIRST* students!
- Deadline to apply February 28, 2019
- 3.0 Cumulative GPA or higher
- Must be a BECU member – It's free and no minimum deposit!
- Must be a graduating senior, or enrolled in 2-year, 4-year or technical college or university
- Must be full-time student
- Visit [becu.org/scholarships](http://becu.org/scholarships) to apply



# Hear For You Quiet Rooms



The robotics scene is an exhilarating experience dotted with the joy and satisfaction of building a robot and competing: an energetic environment that would not initially appear to induce stress or anxiety. Unfortunately for some students, this is not the case. The pressure that they put on themselves, and their peers, can be overwhelming. Students with special needs and overreactions to sensory environments often need breaks to self regulate and re acclimate to environments like an FRC event. The anxiety of performing well, the cacophony of noise, and the energy of each match leaves some students yearning for a moment of relief. FRC Team 5588, Reign Robotics are hoping to provide a Quiet Space for people to take a moment to destress at robotics competitions. 'Hear For You' is a program developed by team 125 and run locally by 5588 to provide information, guidance, and support to those who may need it in the *FRC* community.

The quiet room is a place for students, mentors and volunteers to take a short 15 minute decompressing break during competitions. Members may use the room up to two times a day if needed.







# Pacific Northwest **FRC** **Business Roundtable**



We bring gracious professionalism to *FIRST*® Washington business teams and help build a cooperative community to discuss best practices

- To share and discuss different business practices with each other, specifically what is successful and how to execute these practices
- To define problems and brainstorm solutions that are present in the *FIRST*® PNW Robotics business community.
- To establish connections with each other to encourage gracious and professional inter-team relationships.
- To help bring FRC teams together to cooperate, and work towards specific objectives that will help benefit PNW teams.



# Thanks for attending

- You can contact [arime@firstwa.org](mailto:arime@firstwa.org) with additional questions
- These slides will be posted on: <http://firstwa.org/Team-Resources/FIRST-Robotics-Competition-Team-Resources>

