

**Auburn Mtv
High School**
28900 124th
Ave SE
Auburn, WA
98092

**FIRST FRC
Team 2907
Lion Robotics**

Roarporter

Volume 1, Issue 1

Weekly Update 1/3-1/10

FRC Competition Dates:

WEEK 1:
Feb. 26th—March
1st (AMHS)

WEEK 2:
March 5th—March
8th

WEEK 3:
March 12th—March
15th (Mt. Vernon)

WEEK 4:
March 19th—March
22nd

WEEK 5:
March 26th—March
29th

**DISTRICT
CHAMPIONSHIP
IN SPOKANE,
WA:**
April 2nd—April 4th

**FIRST
CHAMPIONSHIP
IN ST. LOUIS:**
April 22nd—April
25th

FTC Competition Dates:

INTERLEAUGE
January 11th

STATE
January 31st

**FIRST
CHAMPIONSHIP
IN ST. LOUIS:**
April 22nd—April
25th

Kicking off the New Season

Executive Report from Co-Captains Austin Kukay and Jasper Lommen

Hello 2907! As everyone is now aware, we were given our challenge for this year on Saturday, Recycle Rush! We would like to thank everyone who attended and helped make the Kick-off event a success.

During the week we have begun the design and prototyping process and have laid out the field in the shop.

Looking ahead to next week, we will come to a decision on our drive base

and begin construction.

This Saturday we have



Drive Team Tryouts (make sure to let Mrs. Grubb or another mentor know if you are interested in being

on drive team) as well as our first Executive Meeting of the Build Season. Everyone is invited to attend this meeting.

On Sunday both of our FTC teams, Roarbotics and Leotech, will be competing at the Watt Interleague Competition at Woodrow Wilson High School in Tacoma. It would be awesome if we could get people from FRC to cheer them on.

We got a lot of really good work done last week and if we can keep it up, by the end of Build Season we will be in great shape for competition. Keep it up Team!

Mentoring at Jr. FLL at Lea Hill

Outreach update as of Thursday 1/8 by Outreach Executive Chris Sorta

For those who don't know, Outreach builds relationships within our team and the community through various community service events and team bonding.

Currently our largest outreach project is volunteering at Lea Hill Elementary. Mon-

day through Thursday, some of our students go to the school to guide small groups of younger students through Jr. FLL, teaching them the fundamentals of learning and creative thinking.

Throughout this season, we hope to provide many

opportunities for our team to get involved within the community.

If you care to join the Outreach team, or to become involved in some community service, feel free to talk to Chris or Austin Kukay!

IMPORTANT DATES/ EVENTS:

- **Sun. 1/11** FTC at Interleague in Tacoma
- **Sat. 1/31** FTC State Competition
- **Fri. 2/20** Deadline to sign up to travel to Mt. Vernon Competition
- **Wed. 2/18** Bagn-Tag
- **Thurs. 2/19** Chairman's Award Deadline

Grubb's Grubb

Mentor update by Regina Grubb

Congratulations to our FTC teams, Roarbotics Team 5953 and Leotech Team 8495, who finished 1st & 2nd respectively in our League earlier in December! They will be heading to Interleague championships this Sunday, January 11th. Good luck!

We are so fortunate to have parents who provide meals and snacks during the build season. If you are interested in helping out with the team's food resources, please contact Katrina Coleman. Non-perishable items can be

dropped off with any mentor and will be distributed as needed. We are also looking for parents to help out with the auction. This is a huge fundraiser for our team, so any assistance would be appreciated!

It is VERY important that you sign up in STIMS in order for your membership to be complete. Please finish the registration process at:

<https://my.usfirst.org/stims/Login.aspx>

Finally, the FIRST community is successful because of a cadre of volunteers, with that in mind there are several volunteer opportunities coming up quickly and help would be very much

appreciated. If you are interested in helping out at future competitions or events, please create a profile and login to the volunteer management system at:

https://my.usfirst.org/FIRSTPortal/Login/VIMS_Login.aspx

Choose an event then a role. We are looking for robot inspectors to sign up now, but any support is greatly valued!

MENTOR OF THE WEEK: Shout out to our newest mentor Dane! He is enjoying working with our fabrication on FTC team and brainstorming with FRC team. He is a former member of Rainier FLL, and currently works as a subcontractor window washer.

Team members hard at work building kitbot

Build Update as of Thursday 1/8 by Co-Captain Austin Kukay

This past week we have seen a lot of great designs. Our kick-off went very smoothly and the group of participants we had worked well together.

The build team has successfully completed the kitbot frame, which is created from the components of the kit provided to us by FIRST Robotics at the kick-off.

We also have a functional part of the scoring platform and a model of the chute completed (the chute is located on the human player interaction portion of

the field to deliver totes to alliance robots). We plan to use this to train our human players.

In the next couple days we will be mainly be prototyping and making some important decisions pertaining to the drive base and other aspects of our robot. Be sure to keep thinking and contributing ideas!

Build team is about your designs and how we could prototype them. If you are interested in being more involved in the build process, let Juan, Shannon, or Mr. Scott know!

Finance Team teaming up with Build

Business Update as of 1/8 by Business Executives Roop Nagra, Allen Suresh, & Kyle Wilkerson

This week as the build season started, the Business Team has mainly focused its effort on build. On Tuesday, Allen Suresh and Kyle Wilkerson built the tote chute along with Build Executive Shannon Mac Gatlin-Maas and other team members. The process for the chute took only about two hours, during which Kyle would ask Mr. Scott for directions on how to build it then come back for another question and conformation. After two hours we had a shiny new tote chute.

During the Executive Meeting the next day there was talk of fundraisers, so the Finance Team Allen, Kyle, and Roop Nagra all brought together ideas using examples from other teams and organizations. After presenting the ideas to all the executives we narrowed down a list of possible team fundraisers and have set about putting these in a more refined state before presenting them to our team. If you are interested in being part of Business, let Kyle, Roop or Allen know!



Photo by: Allen Suresh

Congratulations to our Dean's List nominees!

Awards Update as of Thursday 1/8 by Communications Executive Kyla Klasen

Crazy to think week one of build season is already over! As bag-n-tag approaches faster than we all care to think, it's been exciting to see all the new and returning faces working together. Excited to see all our hard work come together!

It is with great pleasure I announce our team's nominees for the 2015 Dean's List Award.. Congratulations to Steven Grubb and Jasper Lommen!

Both Steven and Jasper have been involved in FIRST Robotics since

their middle school years, and are key components of our FTC Team 5953 Roarbotics.

Steven has shown great creativity with our FTC team, helping dramatically with the designing and modeling of the robot. He is currently working on developing a duo wheel drive that allows the robot to go from mecanum to traction tires with the actuation of a worm drive. Steven is also very involved in our FRC team, serving as lead of electronics.

As lead programmer, Jasper programmed the team's new drive and trained the programmer for our new rookie FTC Team. Jasper's programming abilities have also been an asset to our FRC team, creating software solutions for our scouting data including introducing heat maps as another source of strategic analysis.

Thank you Steven and Jasper for all your contributions to our team. We wish you luck at your Dean's List interview this weekend!

Meeting Schedule for Next Week:

Monday Jan. 12th

2:45 to 5:00 pm

Tuesday Jan 13th

2:45 to 7:00 pm

Wednesday Jan. 14th

2:45 to 8:00 pm

Thursday Jan. 15th

2:45 to 5:00 pm

Friday Jan. 16th

NO MEETING

Saturday Jan. 17th

8:00 am to 4:00 pm

CUT THIS OUT & KEEP IN THE FRONT OF YOUR BINDER,
ON YOUR REFRIDGERATOR, OR SOMEWHERE VISABLE!

Thank you to our sponsors...

Orion Aerospace

Global Plastics

Intellectual Ventures

PTC

SPEEA

Boeing

Laser Cutting NW

NW Home Improvement and Repair, Inc.

*Lion Robotics greatly
appreciates your support!*

Tape field helps strategize robot design

Strategy Update as of Thursday 1/8 by Strategy Executive Marissa Clowers

Strategy has been keeping busy! Since Saturday, a field tape model has been laid out in the shop to highlight the size of the playing field (featured in picture above). Most importantly we have been narrowing down our requirements for the attributes for our robot to present to the build team. These may involve but are not limited to:

1. MOBILITY of robot, must be efficient and controlled.
2. LIFT minimum of two totes to create a four stack on the step, height approximately 42".
3. CARRY about 30 pounds of weight.
4. STABILITY of robot to prevent tipping-over, balance loads, control stack when moving and go over scoring platforms.
5. SIZE of robot, the smaller the better so we can access all totes.
6. SIGHT of drivers from station, may be blinded behind wall of opposing alliance's scored totes.
7. MOVE noodles to landfill zone.

8. LIMIT/AVOID appendages that do not retract.
9. PROTECT electronics from shock, static, and noodles.
10. CAPABLE of lifting recycle bins and totes.

Although this list is extensive it covers all of the issues Re-cycle Rush presents including autonomous. For now this list is not set in a particular order.



Photo by: Allen Suresh