



THE NUTS AND BOLTS

TechHOUNDS Newsletter

WATERJET CUTTING

Waterjet is a process of using water at high pressures, often along with an adhesive, to make very precise cuts. Each year TechHOUNDS travels to Waterjet to use tools needed to cut metal that would otherwise not be possible. Sophomore Josh Moore explains what the team does at waterjet. "We bring the robot files and convert them then we load them into the waterjet and supervise," Moore said. The trip to the company gives students the opportunity to learn more about professional engineering projects, and gives the team time to bond similar to class field trips. Sophomore Alex Thomas describes why he enjoyed the trip, "it was a great way to meet people from more than just your own division." TechHOUNDS would like to thank Waterjet for giving us the opportunity to use their resources.



UPCOMING EVENTS

FEBRUARY 27:
STOP BUILD DAY

MARCH 4-5:
TIPPICANOE DISTRICT
COMPETITION

MARCH 24-25:
PERRY MERIDIAN DISTRICT
COMPETITION

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DIVISION UPDATES



CONSTRUCTION “Final assembly is being done on the battery box, which will be followed by painting. The airship is completed and we’re working on the gear lift on the airship so that someone can stand up on the top and pull up the gears. The electrical cart has been assembled, mostly painted and they’re adding a handle to it. We’re also working on another element that will go in the pit!”



ELECTRICAL “We have finished our design for the electrical board, and cut it two different ways to figure out which one was better. We’ve been continuing to figure out what sensors we’re gonna need and working on some side projects.”



ROBOT OPS “We finished our drive train and assembled our vertical ball feeder. Mr. Bonewit is helping us work on our shooter, and we’ve all been working on other aspects of the robot as well.”



INFORMATION TECHNOLOGY “We’ve gotten a lot of work done updating the website, and we’re very very close to finishing and getting ready to test the scouting system.”



PUBLIC RELATIONS “This week PR has decided on the build season trinket being slime. We finished the Chairman’s video. Additionally we have started planning future events and came up with promotion strategies.”



PROGRAMMING “We have worked mostly on this year’s robot code by prototyping it. We’ve gotten all the subsystems done, a lot of basic commands, and some of the auton mode. We’ve looked at the auton vision tracking, made more development with the hololens.”

GET TO KNOW OUR TEAM

ROOKIE CORNER



RAHUL PRAKASH

Why did you join?

I like engineering and robotics.

What are your goals for the team?

I'm helping make parts of the robot, machining them, and that kind of stuff. So I want to build robots and see them win.

What have you liked about the team so far?

I like the people in robot ops. I also like working with Mr. Bonewit and the mentors.

How did you hear about TechHOUNDS?

My friend Chinnu told me about TechHOUNDS.

MENTOR CORNER



MR. HUTSON

How long have you been a mentor?

I started back in 2003, so 13 years now.

Why did you start mentoring?

Probably because I saw it from afar from a while. I saw how much fun the students were having and how much fun the mentors were having, so I just wanted to be a part of it and help make a difference.

What do you do for the team?

Anywhere I can help, I like to pitch in. I'm kind of oriented towards robot ops because I'm a machine guy.

What do you enjoy about TechHOUNDS?

I just enjoy being around young people and watching them grow and learn, and I take pride in the finished product.



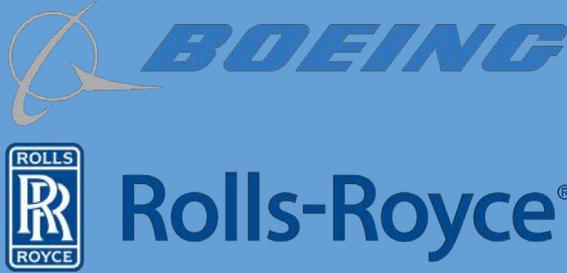
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