



The Highlanders

FRC Team #4499



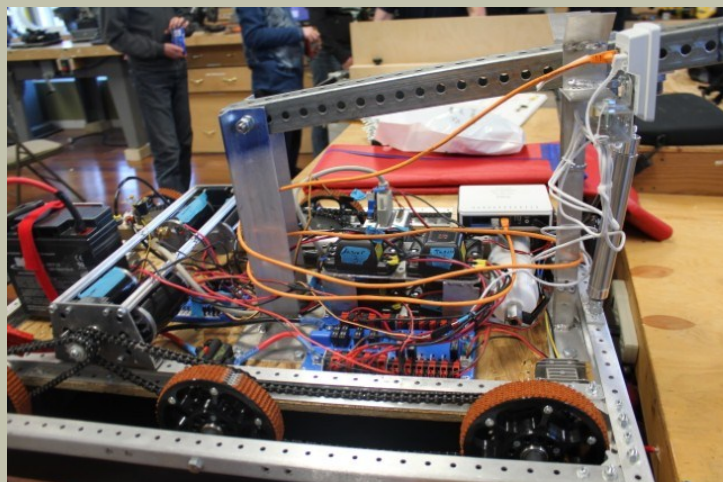
The Highlanders Robotics Team



Who are we?

The Highlanders FRC Team 4499 consists of a group of 19 students in 4 schools (Kinard Middle School, Fossil Ridge, Liberty Common and Rocky Mountain High school). We are young men and women with many different interests and experiences. Many of us have been in the FIRST robotics programs for 7 years and some of us are just starting out. We are excited to start our first season with FRC and see what we can do to succeed and have fun!

Our Pre-season Robot

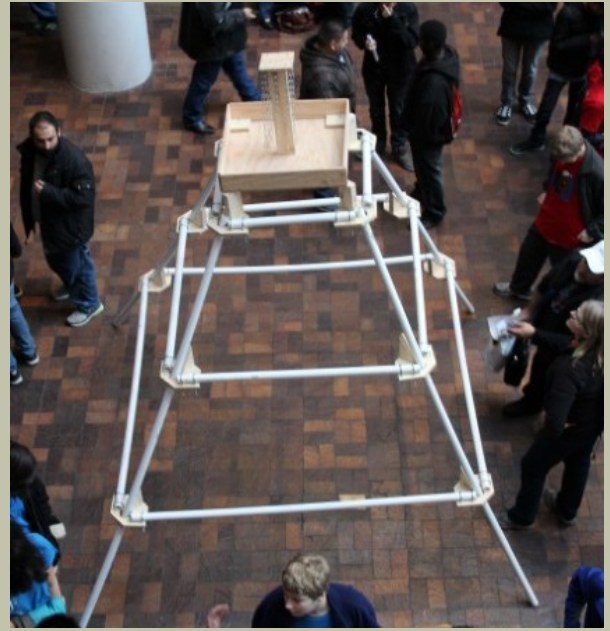
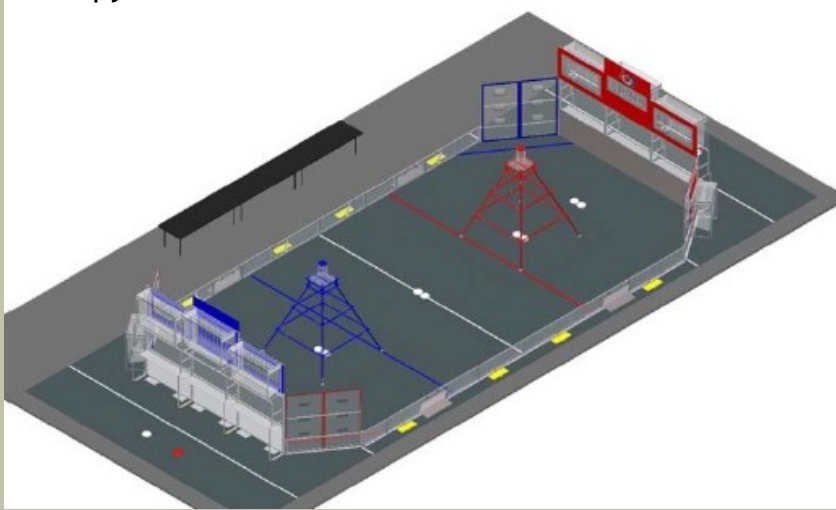


To practice our robot-building skills, we spent November and December building a demo robot. While we were building it, we learned about welding, milling and machining, motors, pneumatics, imaging, CAD and programming.



We received our season's challenge on January 5th—Ultimate Ascent! The game is played by two competing alliances on a 27'x54' field. Each alliance is formed of 3 robots, and they compete as a team to score points by throwing Frisbee discs into goals. The match starts with 15 seconds of autonomous robot action, trying to get discs into goals. This is followed by 2 minutes of drivers controlling the robots and continuing to score goals. Teams can also direct their robots to climb an 10 ft. pyramid for even more points!

The field layout: The red team drivers stand behind the blue goals, and target the red goals and the red pyramid.



The pyramid our robot will climb will actually be 1.5 inch steel pipe, welded at the corners. This PVC version from the Denver kickoff event gives a good perspective, though.



Some ideas for how we can climb.

Brainstorming for our over-all strategy



Robot Expo/Scrimmage

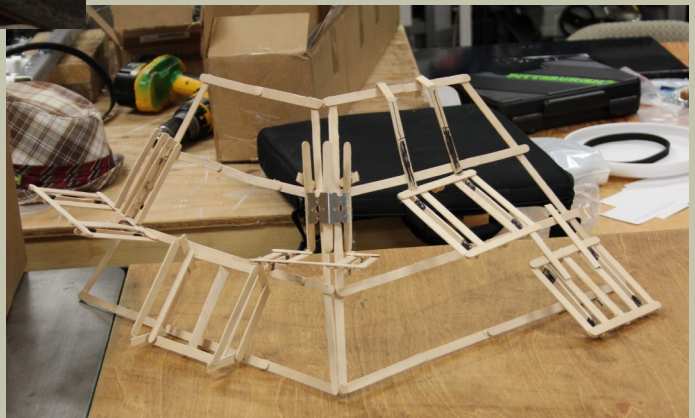
Come see our robots and a few other teams in northern Colorado , including Fossil Ridge High school, Alpine Robotics and Loveland high school

When: Feb 9th

Where: Fossil Ridge High school

Time: TBA

Please check our website for time and details, or email Debbie@highlandersfrc.com for more information



What is FIRST?

FIRST, stands for 'For Inspiration and Recognition of Science and Technology', is a program that encourages students to peruse their interests in science, technology and business development. For more information visit



Highlanders FRC Team Members



ALEX F.

Alex is fifteen years old and a sophomore at Fossil Ridge High School, and he likes to run. He builds on the team and is considering a career in engineering based on his experience.



ALEX I.

Alex is a sophomore at Liberty Common High School. When he is not working on the robot, he spends his free time writing JAVA programs.



ANDRE

Andre is fifteen and is in sophomore year at Fossil Ridge High School. He has been playing soccer for a while, so it is one of his

favorite things to do.



BLAKE

Blake is fifteen years old and is in his sophomore year at Rocky Mountain High School. His main hobby is robotics. He's one of the builders on the team and plans on

having a career in genetic engineering.



BRETTA

Bretta is thirteen years old and is in eight grade at Liberty Common High School. She employs her time playing video games and writing. When she grows up, she has so

many things she wants to be that one life won't be enough!



CAELAN

Caelan is a sophomore at Fossil Ridge High School. He is a problem solver, and is planning on being a doctor.



CHEYENNE

Cheyenne is a great person, and is the team's token vegetarian! She is a sophomore at Fossil Ridge High School, and is passionate about singing.



DAVID

David is fifteen years old and is a sophomore at Liberty Common High School. He is very interested in computers and is a programmer on the team. David is planning

to pursue a career in engineering.

Visit us on our website and see what we are up to...

www.highlandersfrc.com

Highlanders FRC Team Members



DREW

Drew is 16 and a sophomore at Fossil Ridge. He is a programmer, and won first place in a national game design competition for high school

students.



JACOB

Jacob is another sophomore at Fossil Ridge High School. He plays trombone in the marching band and jazz band there.



KAYLA

Kayla is a senior at Fossil Ridge High School, and is considering political science as a major in college.



LINDA

Linda attends Rocky Mountain High School. She is an amazing programmer, and is enjoying being on the team. When she's not here, she might be with

her girl scout troop, volunteering at the raptor center, or singing.



MATT C.

Matt is new to robotics this year. He is a sophomore at Fossil Ridge, and plays soccer.



MATT I.

Matt is thirteen years old and is in eighth grade at Liberty Common High School. He enjoys playing video games and sports. He is a programmer on the team, but he doesn't know what he wants to do yet.



MEGAN

Megan is a 10th grader and is developing business skills to create and maintain the team's website.



MICHAEL

Michael is in 8th grade at Kinard Middle Scholl. He plays Football and Golf on the school team.

Highlanders FRC Team Members



NAATHAN

Naathan is fourteen years old and is attending Fossil Ridge High School as a sophomore. He plays percussion in Fossil's marching band. He doesn't

know what he wants to do for a career yet.



SKYLER

Skyler is fifteen years old and is in sophomore year at Fossil Ridge High School. He enjoys playing soccer as he has been playing it for a long time.



WILL

Will is fifteen years old and is in his sophomore year at Liberty Common High School. His hobbies include baseball, robotics, and cross country.

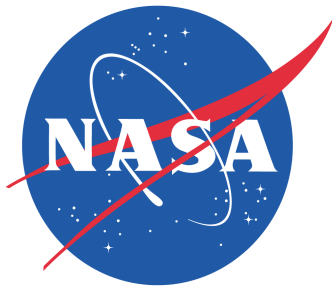
We couldn't do this without our mentors:

Tim Frye, Dave Staudacher, and engineers from

FleetwoodGoldcoWyard

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