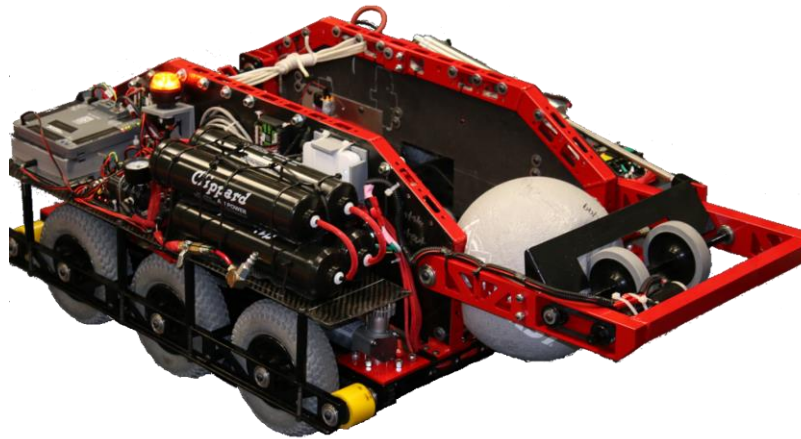


Team 4499 The Highlanders

Robot Spec Sheet

Introducing:

Magnetar



Robot Details

Robot Specifications

Weight: 87 lbs (it's all muscle)
Full Height 23"
Compacted for low bar 15.5"

Scores both high and low goal boulders.

Special Details

External and internal Carbon Fiber
side panels (made by the team)

On board Targeting with Nvidia Jetson TK1

3d Printed roboRIO router and camera mounts

3 cameras for driver front and rear views.

Catapult Mechanism

2 1.5" bore Bimba pistons with 2 16in³
ballast tanks, mechanical locking and
firing trigger.

Vision code to assist with high and low goal
shots.

Drive Train

6 8" Pneumatic Wheels with 4 yellow
McMaster-Carr roller wheels.

Intake/Outtake Mechanism

2 Versa 3.25" wheels with 2 4" mehanum
wheels powered by a Versa planetary motor.
Intakes ball, stabilizes ball over defenses and
pushes ball out.