

Team 4499 The Highlanders

Spec Sheet

Introducing: **GRAVASTAR**



Robot Details

Robot Specifications

Weight: 105 lbs.

Full Height – 4ft 4in

Low Cycle for Hatches/Cargo

Cameras

Auto vision line up with 4 JeVois cameras, 1 for vision targeting and 1 for positional awareness for each directionality of robot.

Hatch Mechanism

Rear horizontal hatch mechanism that utilizes an extendable/retractable hook made from aluminum reinforced 3D printed material.

Drive Train

8 x 6" Pneumatic Wheels

2 Speed 7/15 fps

4 Cim motors

HAB 2Climber

Climb using main arm mechanism in under 5 seconds

Cargo Mechanism

Custom gearbox: Ratio
Intake wheels: 2 Vex wheels for intake, 2 compliant wheels for compression and 2 mecanum for reaching balls at an angle

Auto Targeting

Score in cargo and Rocket Auto Targeting
We have auto scoring capabilities using our Vision cameras, ultrasonic sensors and driver feedback.