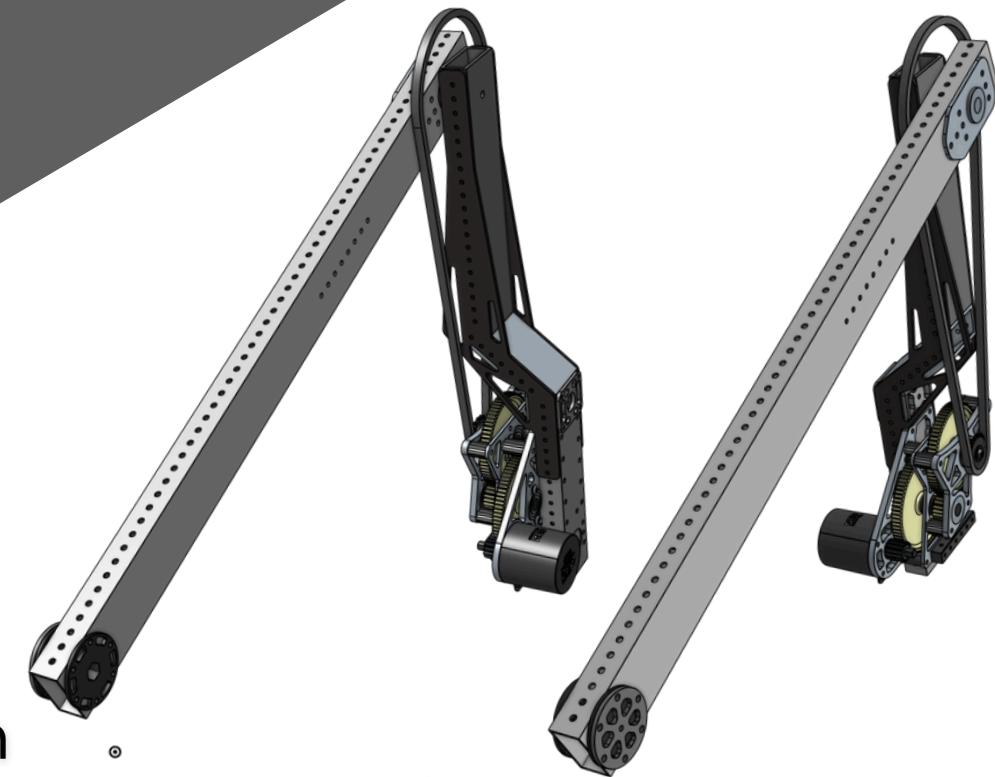


TEAM 4472

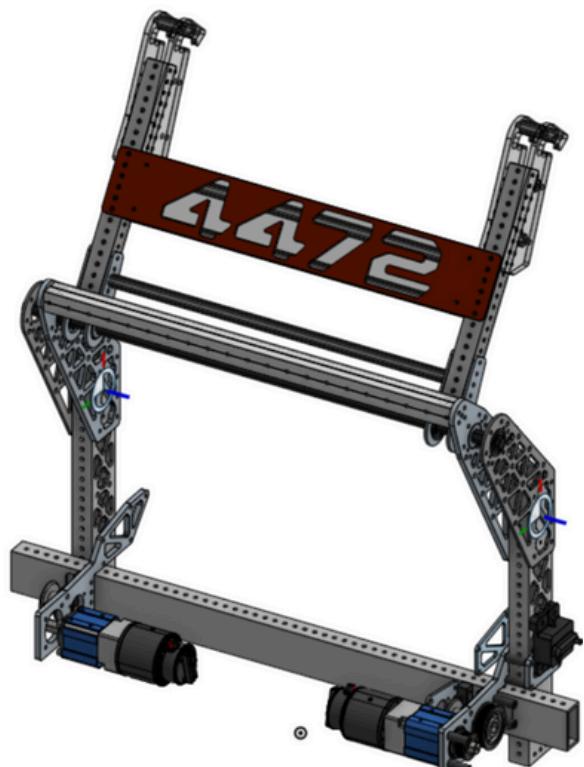
SuperNOVA





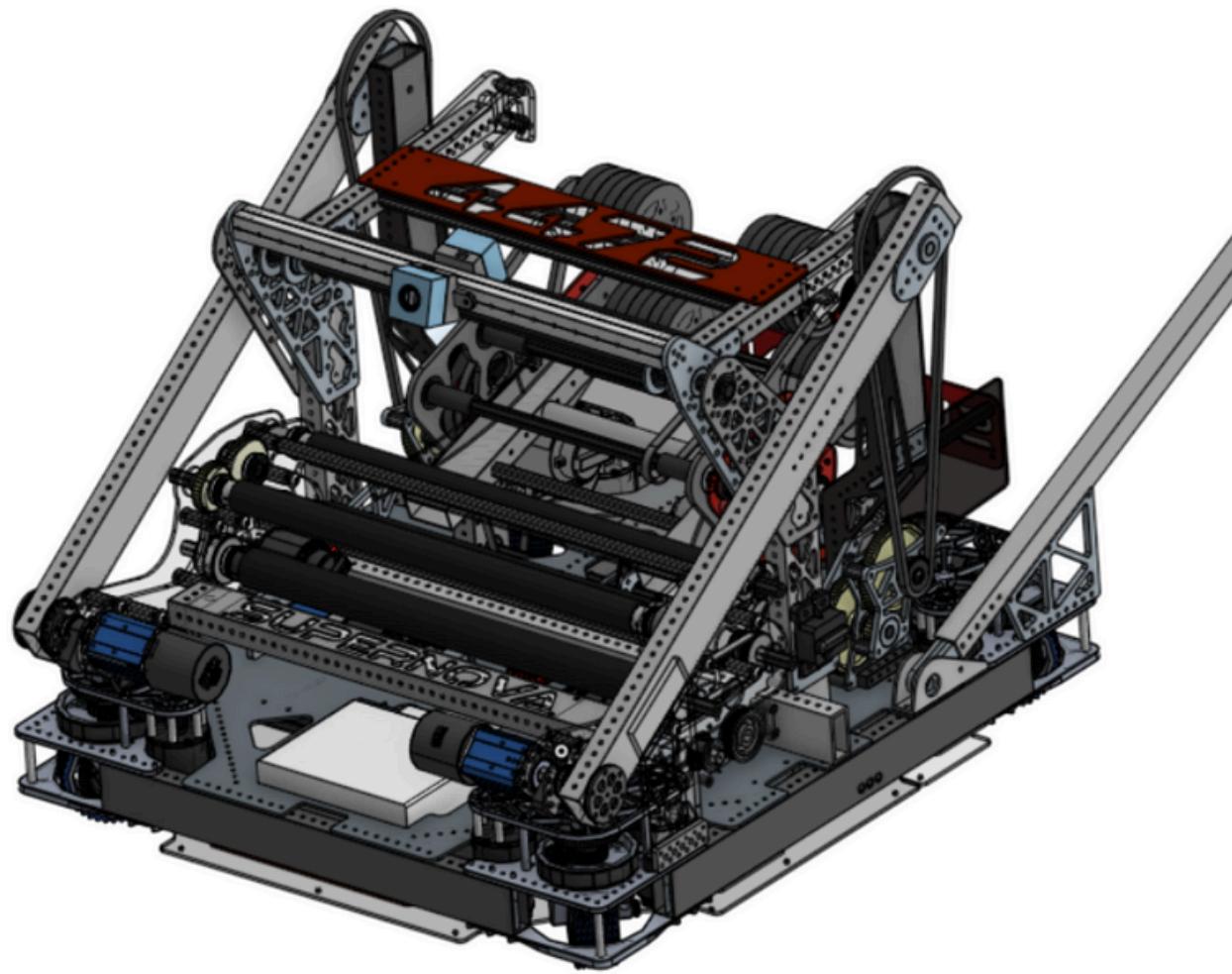
Arm

- Two Neos with a custom Gearbox (approx 20:1)
- Sprocket and chain (32:9)
- Used for Amp scoring and Trap scoring



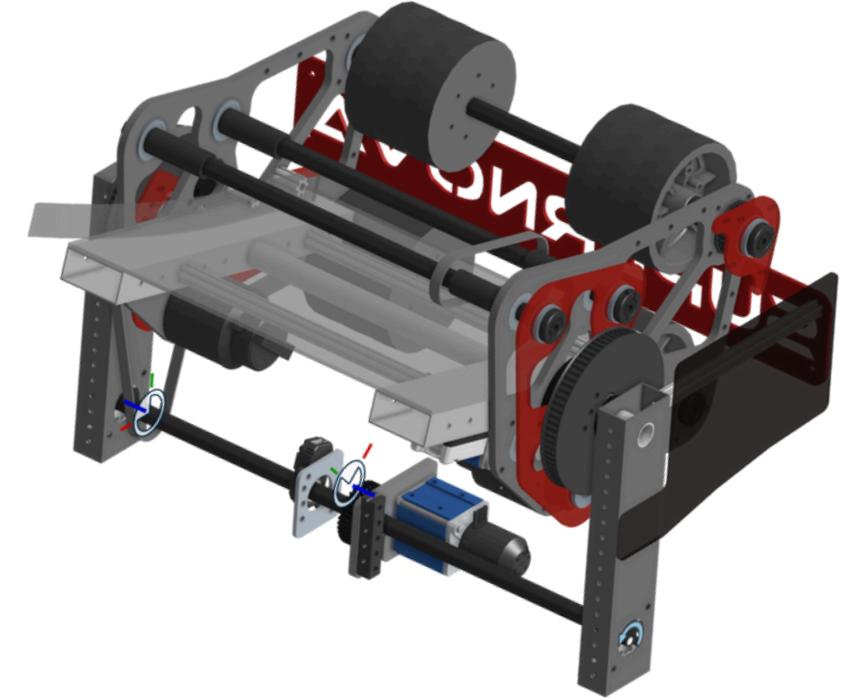
Climb

- Winch - Two Falcons (24:1 ratio)
- Passive Brace
- 6-8 second climb



MEET LYRA

Kraken X60 Mk4I swerve drive
Combined 19 motors
Approx 122 lbs.



Shooter

- Flywheel - Two Falcons (3:4). 4-inch wheels on half-inch compression.
- Max projectile Speed 37.5 ft/s (25 mph)
- Accelerator - Neo 550 (4:1)
- Pivot - Neo 550 (77:1 Ratio)



Intake

- Pivot - 2 neos (48:1)
- Touch it own it strategy
- One Falcon (3:1) controlling rollers

CONTROL SYSTEMS

Control System (electrical)

- Upside-down control system
 - Allows for densely packed electronics with enough room for robust harnessing.
 - Access for maintenance is easily achieved by placing the robot on its side.
 - Control system is highly protected by belly pan and a sheet of polycarbonate.

