

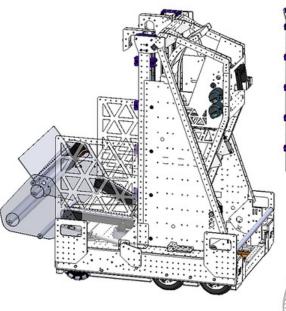
Elements to Include

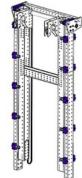
- Graphic(s) of your assembled design
 - CAD renders and/or images of the physical assembly
- Technical Specifications
 - Motors used, ratios used and how you achieved your reductions (gearboxes, belt and pulley, etc.), calculated intake speed from JVN spreadsheet
 - General description of how the design works
 - Testing setup and how results were analyzed
 - Ideas for iteration that could improve design
- Include "FRC7407 Wired Boars" somewhere on poster & Logo
 - The idea is to show these off at competitions!
- Feel free to be creative with your designs!

Example Posters



Spectrum Ultraviolet





Climber

- Single stage elevator
- 3D Printed Bearing Blocks
- Custom Gearbox
- 2 REV NEO motors
- 28:1 Reduction
- Custom Pneumatic Latch
- Hooks
- Easy Alignment
- Non-slip Grip
- Latches inspired by FRC#6328

Shooter

- Shooter Wheels
- 6" Wheels
- 2x Falcon Motors
- 3500-4500 Wheel RPM
- Accelerator Wheels
- 4" Wheels
- 1x Falcon Motor
- Same RPM, lower Surface Speed
- Shooter Hood
- 3D printed Angle
- Foam for adaptable compression
- PTFE Sheet to reduce friction



- 6-Wheel Drive
- 4x 6" Trampa Pneumatic Tires
- 2x 6" Omni Wheels
- 2 Speed Shifting Gearbox
- 4 Falcons
- 1.5 Stage Design
- Theoretical Speeds
- High Gear: 19.5 fps
- Low Gear: 10.5 fps

Intake

- Our intake design has influenced many teams this season
- Full Width Over Bumper Intake
- Rollers
- Dead axle design
- 3D printed Pulleys
- 2.5" Polycarbonate Tube
- NEO Motor
- 36:18 3mm Belt Reduction
- Polycarbonate Compliant Design
- Absorbs impacts



Ball Path

- FRC#6135 inspired V Funnel Design
- NEO 550 Motors
- Side belts prevent ball jams
- PTFE coated floor
- Automated Ball Tower
- IR Line Break Sensors
- Pneumatic system for ball
- Falcon Motor with 30:8 gear