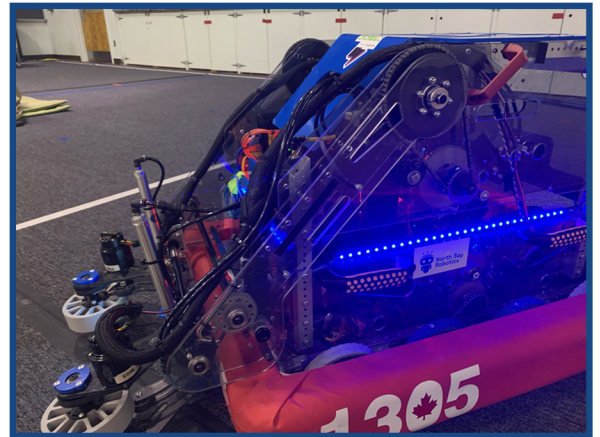


# V3CTOR

*V3CTOR is 1305's robot for the 2023 game, Charged Up! V3CTOR zooms across the field with direction and magnitude, scoring links and engaging with the Charge Station. V3CTOR collects game pieces with the **Enbridge** Intake and **Canadore** Arm, and zips across the field powered by the **GM** Drivetrain.*

## Canadore Arm

- 2 Neo motors for arm control
- 1 Neo 550 for wrist control
- 9 presets



## Enbridge Intake

- Picks up Cones and Cubes
- 2 Falcon 500 motors
- 2 pneumatic pistons
- Colour sensor to detect game pieces
- Scores game pieces on most nodes
  - Cubes - low, medium, high
  - Cones - low, medium

## GM Drivetrain

- 8 wheel West Coast tank drive
- 6 Neo motors
  - 12.47:1 gear ratio
- Balances on Charge Station
- Size with bumpers
  - 28" wide
  - 36" long

## Programming

- 12 autonomous paths
- Triple modular redundancy voting system
- Auto balance
- Limelight camera for tracking game pieces and nodes
- LED feedback

