# Team 4499 The Highlanders

### **Robot Spec Sheet**

# *Introducing ...* Pulsar



## **Robot Details**

40 seconds for 6 stack of totes from landfill; 80 sec for 6 stack + container

#### Intake Mechanism

4 Colson wheels on spring-loaded arms. Vex bag motors on VersaPlanetary gearboxes.

#### Tote Lifting Mechanism

Belt-driven, dual-input RS-775/VersaPlanetary powered. Fully encoder enabled.

#### Container Mechanism

4-bar linkage with aluminum forks.

#### Drive Train

4-wheeled Vex Mecanum Drive With 4 RS775s on VersaPlanetary gear boxes and A-frame chassis

#### **Robot Specifications**

Weight: 119 lbs Height: 5' 9"

#### Special Details

Electronics board, side plates and intake arms made out of Carbon Fiber - made by the team. Most spacers and custom sensor fittings, plus Jetson, RoboRio, router and camera mounts made from our 3D Printer. Sheet metal parts cut on our team-built CNC plasma.

### Autonomous

Three totes stacked in auto zone – Computer vision assisted targeting