

# “OSCAR”

Team 2996 Cougars Gone Wired's 2020/2021 robot is quick, compact, and efficient. With Omni and Kit-of-Parts wheels combined with a shooting mechanism built for firing from safety, Oscar makes for a competitive robot for Infinite Recharge!

## Shooting System

- Shooting wheel driven by a Falcon 500
- Compression bar to improve distance
- 4 Preset shooting positions
- Pneumatic pistons to actuate the arm

## Transfer System

- “Chomper” to organize power cells
  - Pneumatic actuators move the top bar
- Holding capacity of 5 power cells
- Pulley-driven sets of polycord

## Intake System

- 2 Axles with Mecanum & rubber wheels
- 2 Slanted wheels to center power cells
- Plexiglass to retain power cells

## Climbing System

- 2 Aluminum extension tubes
- 3D-Printed brackets | 2 grabbing hooks
- 2 Banebot 775 Pro's (80:1 Worm Gear)
- Winch-spoiled paracord for climbing

## Drive Base

- 6-Wheel Drive: 4 Omni + 2 KOP wheels
- 3 Falcon 500 motors per Side