

TEAM 1559 PRESENTS

SUBZERO

VISION

- Automatically steers towards cargo
- Aligns to hub and calculates speed depending on distance

CARGO SCORING SYSTEM

- Flywheel shooter with curved ramp
- Collects and shoots 2 pieces of cargo
- Shoots up to 12ft away from the Upper Hub
- Self-indexing prevents cargo from colliding while in air
- Uses vision system to align

AUTONOMOUS

- Taxis out of tarmac
- Collects ball
- Shoots collected and pre-loaded cargo into Upper Hub
- Uses vision system to align

CHASSIS

- 4 wheel (6in diameter) mecanum drive
- Traverses field at up to 17ft/s
- Quick and light frame
- Closed-loop velocity control for stronger resistance when being pushed

CLIMBER

- Traverses in less than 25s
- Can climb in any position
- Able to climb any bar if needed
- Double arm design with passive hooks to hold when arms are extending



CODY PEREZ
PILOT



RONIK BILIMORIA
CO-PILOT



ALEXANDER BHALLA
COACH



JACK DUNFEY
HUMAN PLAYER



JORDAN CIESLINSKI
TECHNICIAN