

## DAISY RAPIDREACH

### ARM

- Four Stage Cascading Telescope
- Powered Extension And Retraction For Rapid Scoring
- Ability To Score All Three Levels
- Split Dead Axle Pivot Increases Telescope Stage Length
- Pocketed To Reduce Weight
- Symmetric Arm Allows Scoring From Both Directions

### DRIVE BASE

- Compact 24 Inch Square Easily Fits On Charge Station
- Swerve Drive For Rapid Acceleration In All Directions
- Bottom Mounted Electronics Prevent Tipping
- Clean Wiring Enables Easy Repairs
- Steel Belly Pan Protects Electronics And Lowers CG



### SOFTWARE

- Written Fully In C++
- Custom Swerve Drive Kinematics
- Motion Profiling To Smoothly Reach Set-points
- Custom Command Based Autonomous
- Gyro Sensor For Automatic Balance

### INTAKE

- Single Intake Stores And Scores Game Pieces
- 180 Degree Rotation To Flip Fallen Cones
- Opens And Closes For Ease Of Scoring
- Compliant Wheels Maintains Hold on Game Pieces
- Reduced Complexity For Robustness