

# ROLLING THUNDER

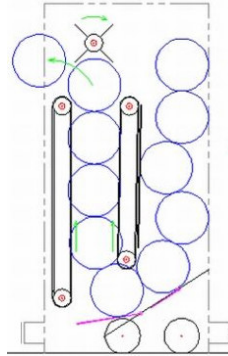
## TEAM 1511 PENFIELD, NY



### 2009 Robot Description

#### Autonomous Modes

- **Spazbot** - Does a random pattern of turns and straight distances
- **Empty Cell** - Drives over to the Outpost and acquires the Empty Cell
- **Offensive-Defense** - Attempts to score on opposing trailer
- **Defensive** - Attempts to block/move another robot of the opposing alliance
- **Lonely Trailer** - Tries to move a trailer (for a no-show robot) that is on our Alliance



Drive Team

#### Conveyor System

- Ball Storage - 20 Balls
- Scoring - Controlled Dumper with top roller
- Ability to score or store in hopper at any time
- Collection - Can acquire from floor and Human Player. Trap door system allows NO JAMS.
- System runs quickly and can dump fast.
- Switch modes on the fly. Can retrieve/dump empty cells and moonrocks.



#### Drive Train

- 4 wheel independent drive
- 4 Banebots 12:1 Transmissions & CIMs
- 4 Banebots Encoders
- Traction Control & Acceleration Ramping



Control Box

#### Capabilities

- Highly Maneuverable/Fast Drivetrain
- Ability to push other robots on Regolith
- Traction control and low center of gravity
- Able to maneuver trailer defensively

#### Major Accomplishments:

- 2009 CHE Chairmans, Website, Imagery & Quarterfinals
- 2009 FLR Finalists & Entrepreneurship Award
- 2008 Philly Imagery & Safety Awards
- 2008 FLR Engineering Inspiration
- 2007 FLR Chairmans Award Winners !!
- 2006 Engineering Inspiration, 2005 Rookie All Star
- Sponsor & Mentor for 10 FLL Teams
- Sponsor of Rochester Rally & RahChaCha Ruckus

Finger Lakes Regional 3/5-3/7, Chesapeake Regional 3/19-3/21, Championships 4/16-4/18