

ROLLING THUNDER

TEAM 1511 PENFIELD, NY



2013 Robot Description - P.H.S.Thunderprise



Control Box

- Back Pack Styling, Custom Control Box,
- Custom Circuitry—emulates a joystick



Drive Train

- 6 wheel tank drive
- 2 4" Traction in center
- 2 pairs of 4" Omni Wheels on each end
- 2 CIM Motors, Top Speed >10 fps

Shooter

- 90 degree circular shooter
- Mini CIM motor 8in pneumatic wheel
- Lead screw changes angle 80 -30 degrees

Climber

- Corner Alignment
- Servo motor actuated latch releases elevator
- CIM Motor raises & lowers a pair of camhooks
- No swinging CG remains constant

Capabilities

- 18 point Autonomous
- Shoot in all goals
- Climb to level 3 for 30 pts
- Loads from Feeder Station



Autonomous Mode

- **Shoot in High Goal** - From back corner of Pyramid - 3 discs

Major Accomplishments:

- 2012 Connecticut Engineering Inspiration
- 2012 FLR Innovation In Controls
- 2011 DC Chairman's
- 2010 BOS Chairman's, FLR Engineering Inspiration
- 2009 CHE Chairmans', Champ Judges
- 2009 FLR Finalists & Entrepreneurship Award
- 2008 Philly Imagery & Safety Awards
- 2008 FLR Engineering Inspiration
- 2007 FLR Chairman's Award Winners
- 2006 Engineering Inspiration, 2005 Rookie All Star
- Sponsor & Mentor for 113 FLL Teams, 24 in 2012
- Sponsor of Rochester Rally & RahChaCha Ruckus, Rampage, ARMAG, Rumble and Razzle Dazzle

Finger Lakes Regional 2/28-3/2, Boston Regional 3/21-3/23, Championships 4/24-4/27