

# ROLLING THUNDER

## TEAM 1511 PENFIELD, NY



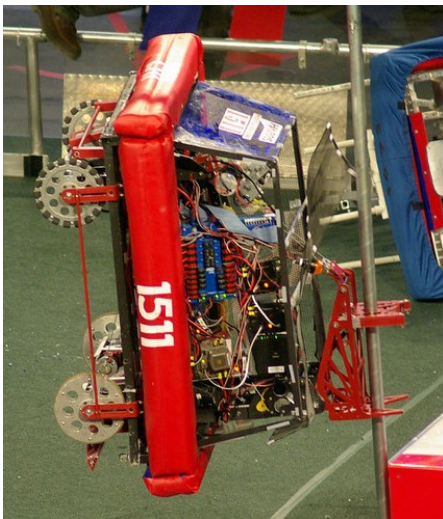
### 2010 Robot Description

#### Autonomous Modes

- **Near Zone** - Score 1 ball move out of way
- **Mid Zone** - Score 2 balls move out of way
- **Far Zone** - Attempt to score 3 balls



Drive Team



#### Lift Mechanism

- CIM Motor to raise and winch
- Hangs from either side off support pole

#### Kicker

- Kick variably to all 3 zones
- 2 Window Motors & Surgical Tubing
- Electromagnet to hold the kicker in place, auto pull back for 2 seconds



Control Box



#### Drive Train

- 4 wheel independent drive
- 2 Traction, 2 Omni Wheels
- 4 Banebots 12:1 Transmissions & CIMs
- 4 Banebots Encoders

#### Capabilities

- **Climb Bumps**
- **Kick Variably to all Zones**
- **Hang from sides of tower**



#### Major Accomplishments:

- 2010 BOS 2nd Seed & Finalists, Chairmans & Coopertition™
- 2010 FLR 5th Seed & Semi-Finalists, Engineering Inspiration
- 2009 CHE Chairmans, Website, Imagery & CHAMP Judges
- 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
- Host of Rochester Rally & RahChaCha Ruckus

Finger Lakes Regional 3/4-3/6, Boston Regional 3/25-3/27, Championships 4/15-4/17