

FTC Team Duct Tape #2845

TeamDuctTape.com—Odessa, FL



An award-winning, community based FIRST Tech Challenge high school level robotics team

2009-10 Awards

Winning Alliance captains, FL Championship
High score: 500, ranked 1st of 25 teams
Connect Award - FL Championship
Inspire Award - Last Shot tournament
Winning Alliance Captain - Last Shot tournament
PTC Design Award - RoboMania tournament

Team Duct Tape is active in both our immediate neighborhood community, as well as our FIRST community, year round. Our outreach programs are aimed at:

- Informing the general public about FIRST robotics,
- Coordinating cooperative training and practice opportunities with other area teams;
- Promoting interest and engagement in science, math and technology to area youth, and
- Encouraging business and professional community involvement in STEM mentoring

If you'd like to learn more about student opportunities with FIRST robotics, or about mentoring, or coaching a team, or if you'd like Team Duct Tape to come speak to your business or organization, please visit us at www.TeamDuctTape.com or write info@learningis4everyone.org.

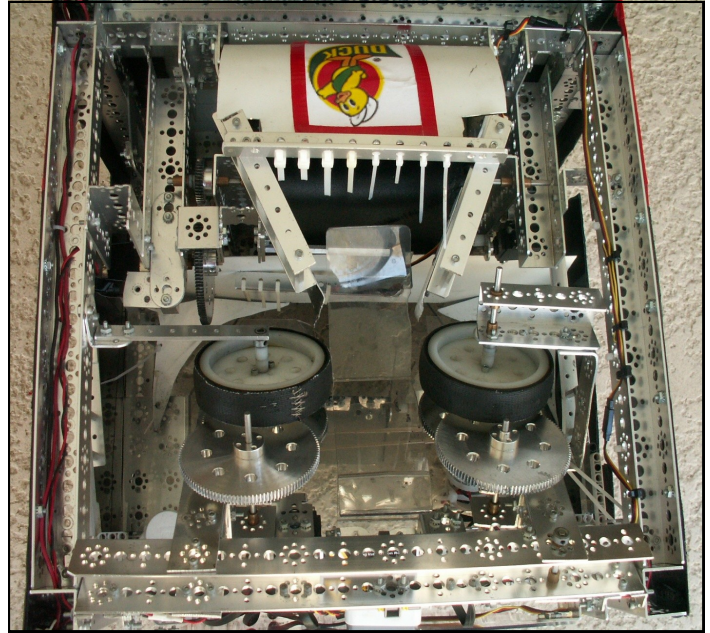
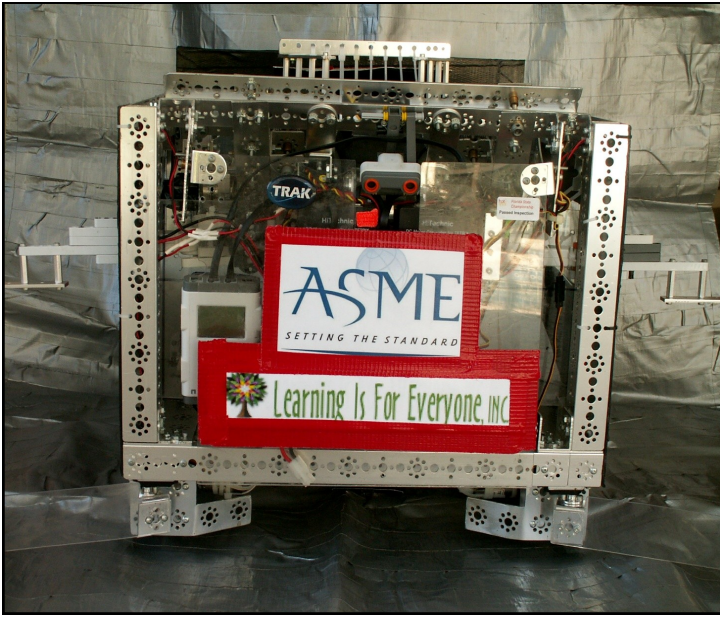
Team Duct Tape FIRST Training & Mentoring

- Tampa Technik , under mentorship of Paul Markun
- USF Racing Team mentorship
- FIRST Lego League Tournament volunteering multiple events
- FIRST LEGO League team mentoring - Techno-Force and Brick Buddies 2009 season
- FLL Mini-Tournament hosting – July 2009
- FLL Summer Camp - June 2009
- Shared CAD training opportunities at McCormick–Stevenson, with other area teams throughout May, 2009

Team Duct Tape has been featured in:

- Pasco Tribune: Aiming to Inspire – April 1, 2010
- ABC News (WFTS): Robot Kids Take on World -
- NBC News Channel 8 (WFLA): Two Area Robotics Teams in World Competition – March 24, 2010
- CBS Studio 10 Morning Show: Lego-riffic Robots!- December 21, 2009
- Tampa Tribune: Kids Revved up for Robotics – July 15, 2009
- Tampa Tribune: Youths Build Camarderie Through Lego Competition – July 8, 2009
- Tampa Tribune: Headed to Championship – Feb. 18, 2009
- Tampa Tribune: Turned on by Robots – November 12, 2008

Robot Specs on Back ...



Some of the key features of this completely student built robot:

- Robust—28 lbs, 18X18x18 inches
- Wide wheel base
- Low Center of Gravity
- 1:1 Gear Ratio
- Dual-motor shooter with 1:9 gear ratio, 1241 rpm repeatable mechanism
- Shoots from up to 10 ft. away at over 72 balls/min.
- Four wheel drive
- Big hopper that holds up to 30 balls
- Ultrasonic sensor for obstacle detection and avoidance
- One-way ball collector valves
- Teleoperated ball funnel flanges and dispenser triggers
- Adjustable tracking belt collector
- Two agitators to minimize ball jams
- Gate controlled ball fall
- Three autonomous programs for each starting position
- Autonomous can trigger dispensers and collect dispenses balls
- Autonomous implements an adaptive, mapping wavefront algorithm

Team Duct Tape has represented FIRST at:

- Sun Lake High School Teen Tech Week - March 31,2010
- NBC Channel 8 FIRST World Championship story - March 24,2010
- FTC Demos at FRC Regional, Orlando - March 13, 2010
- Tampa Bay Area Renaissance Festival –2009 & 2010
- Lockheed Martin National Engineers Week– February 17, 2010
- TEDx Tampa Bay – February 12, 2010
- Studio 10 Morning Show -Dec. 21, 2009
- Society of Manufacturing Engineers- October 2009
- LIFE Fest 2008 & 2009 Ed. Conference, Eckerd Col., St. Pete,FL
- Tempest ‘n’ Tampa, 2008 & 2009, University of South Florida
- PTC Users World Event - 2009 & 2010
- Sypris Electronics Innovation Day – February 2009
- Tampa Bay Engineering Banquet - February 2009
- National Education Television Association Conference - January 2009

We're grateful for the support of the following, and many others, who appear on our website:

