



Team 1124 – The ÜberBots



Robot Features & Benefits

2011 Robot & Controls System:

- Two speed transmissions allows for multiple mobility options, high maneuverability, and high torque
- Encoders - 1 for each drive transmission, 1 for shoulder, and 1 for wrist (4 total)
- Arm – complete with a “shoulder” and “wrist,” allowing for great maneuverability for scoring
- Minibot can get up pole in 2.5 seconds
- Uses all interchangeable parts - replacement parts ready
- We have identified failure modes and have countermeasures in place
- Bumpers securely fastened

During Autonomous Period:

- Can score on high pegs with high accuracy

During Teleoperated Period:

- Can move quickly across the field
- Can pick up off the ground and the feeder station
- Is able to score on all of the pegs
- Can score from any angle

Practice:

- Drivers have practiced for over 35 hours with an identical robot since ship date
- Practiced on a full size practice field
- Participated in multiple scrimmages and play dates

Recent Awards

2011

- Quarter-Finalists at Chesapeake Regional

2010

- Semi-Finalists of Archimedes Division
- Undefeated Performance at Northeast Utilities Regional
- Northeast Utilities Regional Rockwell Automation Innovation in Control Award Winners
- Northeast Utilities Regional Coopertition™ Award Winners
- WPI Regional Chairman’s Award Winners
- WPI Regional Excellence in Engineering Award Winners

2009

- Galileo Division Quarterfinalists
- CT Regional Rockwell Automation Innovation in Control Award Winners
- Suffield Shakedown Champions

2008

- Ranked 4th Internationally
- Archimedes Division Champions
- CT Regional Champions
- CT Regional Kleiner Perkins Caulfield and Byers Entrepreneurship Award Winners

2007

- Championship Event Newton Division Finalists
- UTC CT Regional Champions
- UTC CT Regional Rockwell Automation Innovation in Control Award Winners

2006

- UTC New England Regional Champions

