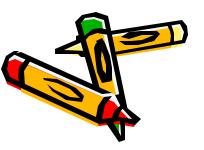
Project Tres

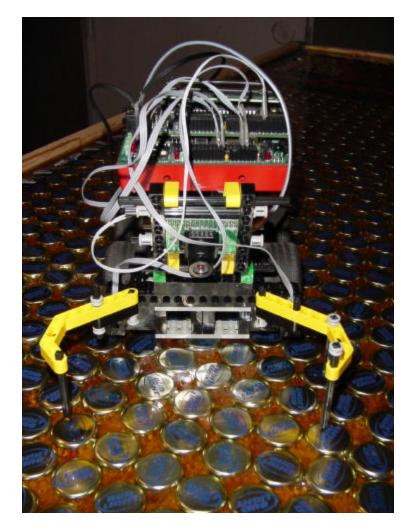
Path Planning and other stuff

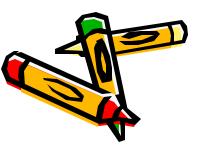
ALE

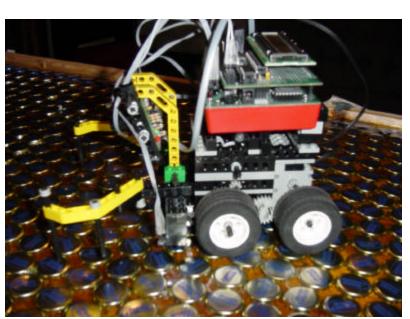
Hardware: Chassis

- Made of LEGOs
- Small footprint, about 7x7 inches
- Tall, about 10 inches
- "Static" "claws" to "grab" "targets"
- Fixed CMU Camera mount









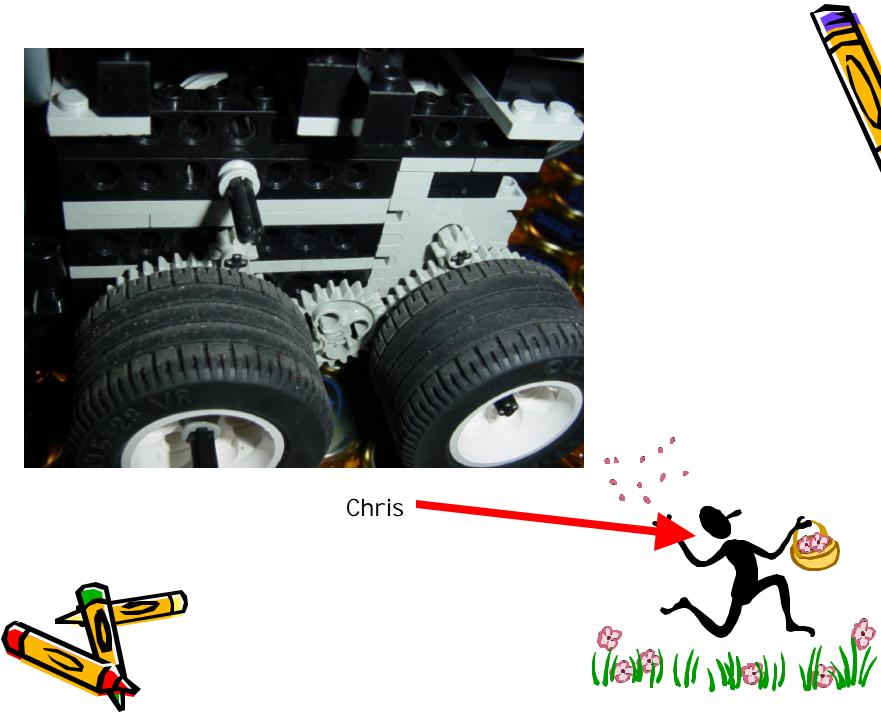




Drive Train

- Four wheels, fat racing tire style
- AWD
- 2 motors, one for each side
- 5:1 gear ratio.....lots of torque

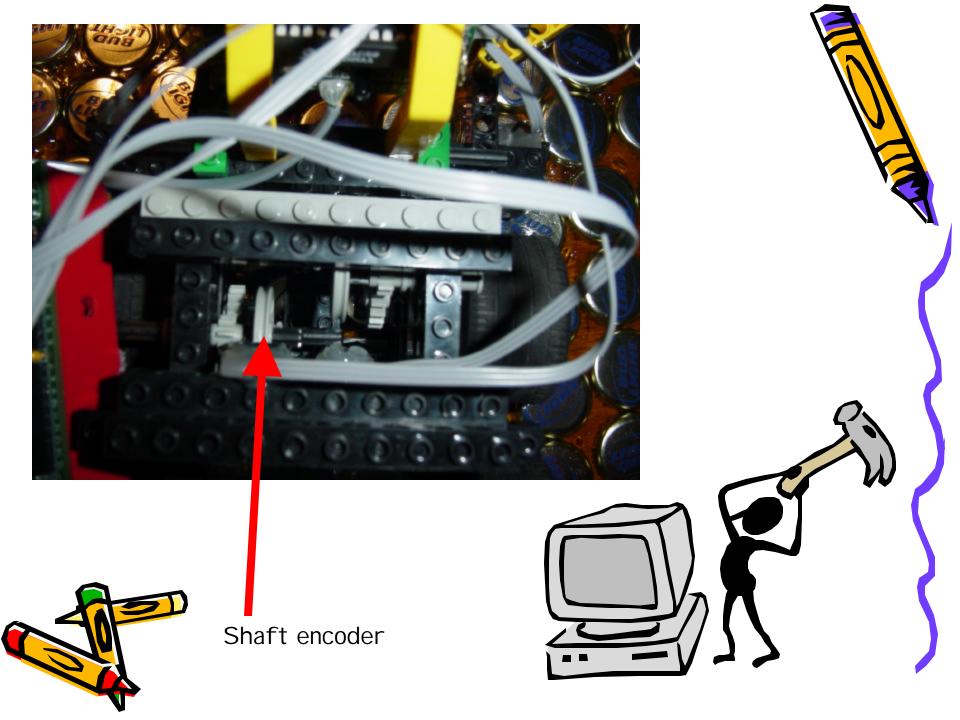




Sensors

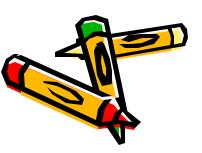
- 2 I R sensors to detect electrical tape goals
- 2 shaft encoders
 - Insanely high encoder resolution
 - Allows us to go PERFECTLY straight
 - Didn't work though
 - Allows EXACT 90 degree turns
 - Didn't work either

Old people on a cruise



Software

- As few processes as possible
 - 2 to be exact
- Very good path planner
- Very efficient
- Accurate dead-reckoning
- I gnores Blue Robot



Software

- What Stewie should do
 - Go to closest goal to verify it
 - Grab closest target
 - Bring it back
 - Repeat



Software

- What Stewie actually did
 - Went to closest goal, verified it (YES!)
 - Went to closest target, grabbed it (YES!)
 - Spun around in circles forever (DOH!)
 - But it did get 50 points by blindly poking the Blue Robot (HA)

