



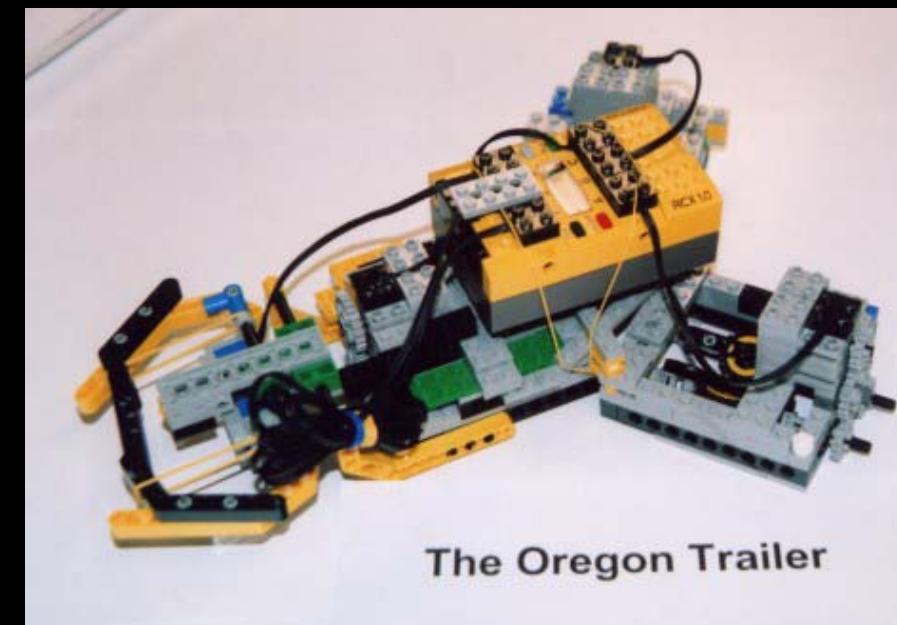
The Oregon Trailer



Logan Strenchock

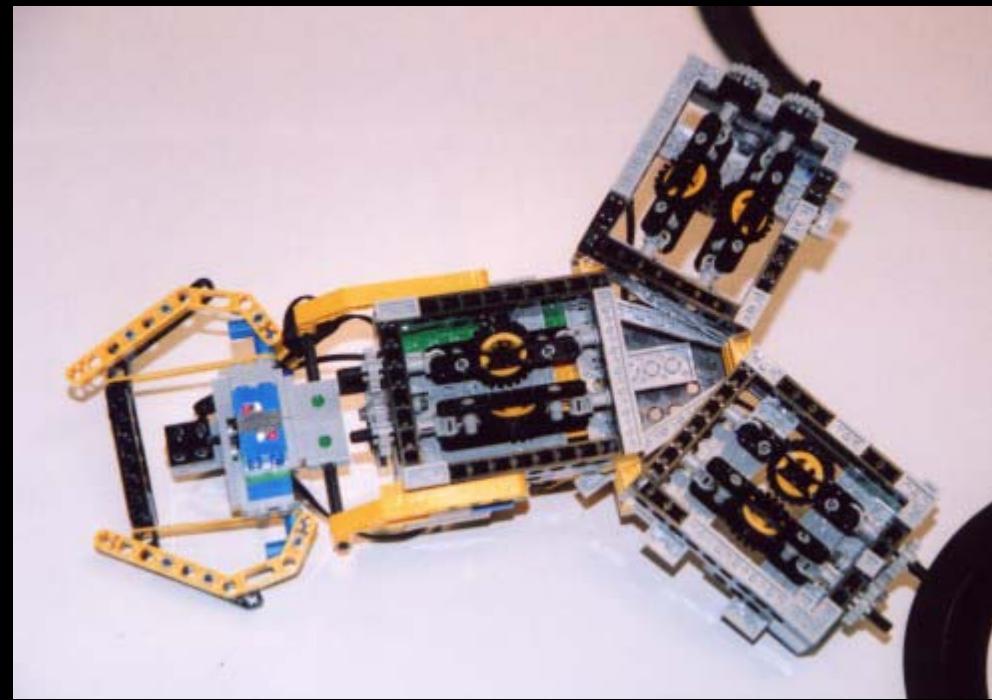
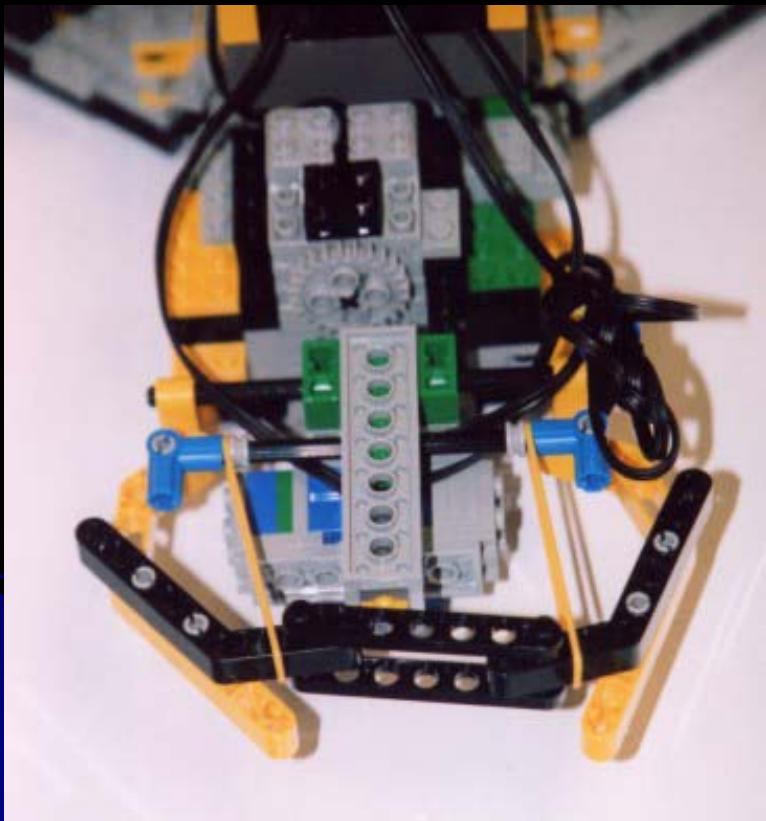
Harper Kubicek

Mark Strasnick



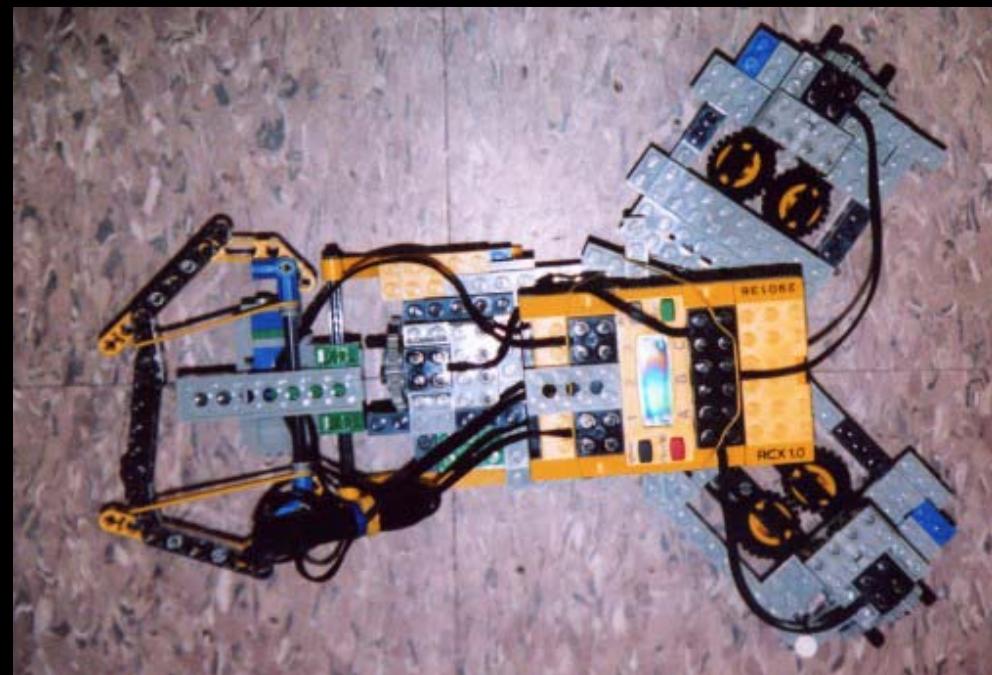
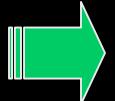
The Oregon Trailer

**Underside View showing
"Small Wheel" design.**

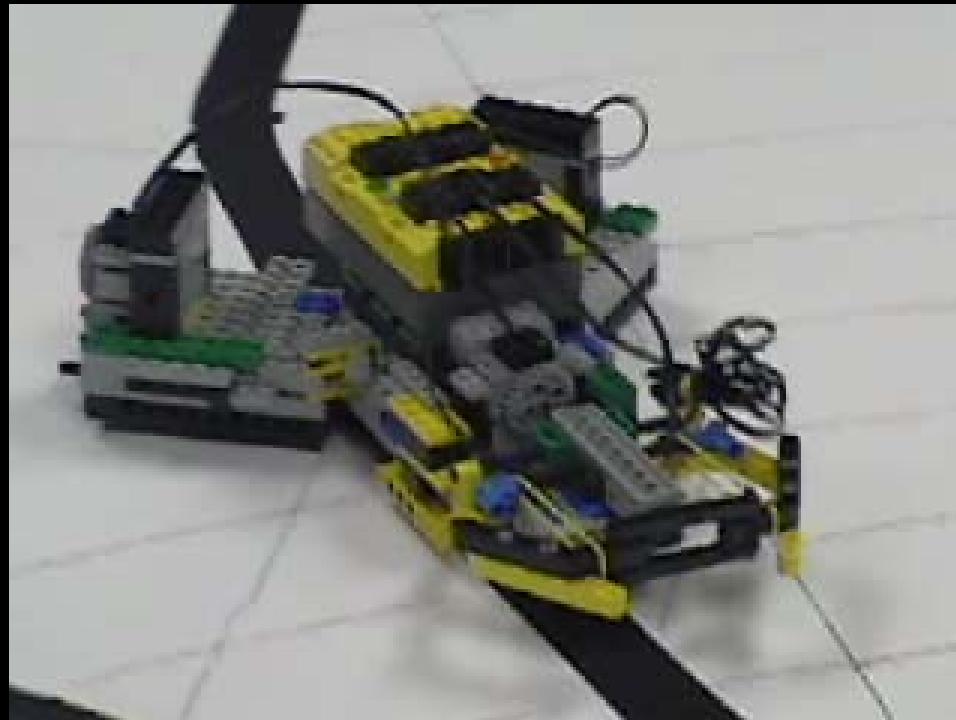


**Our Bumper was
\$MONEY\$!!**

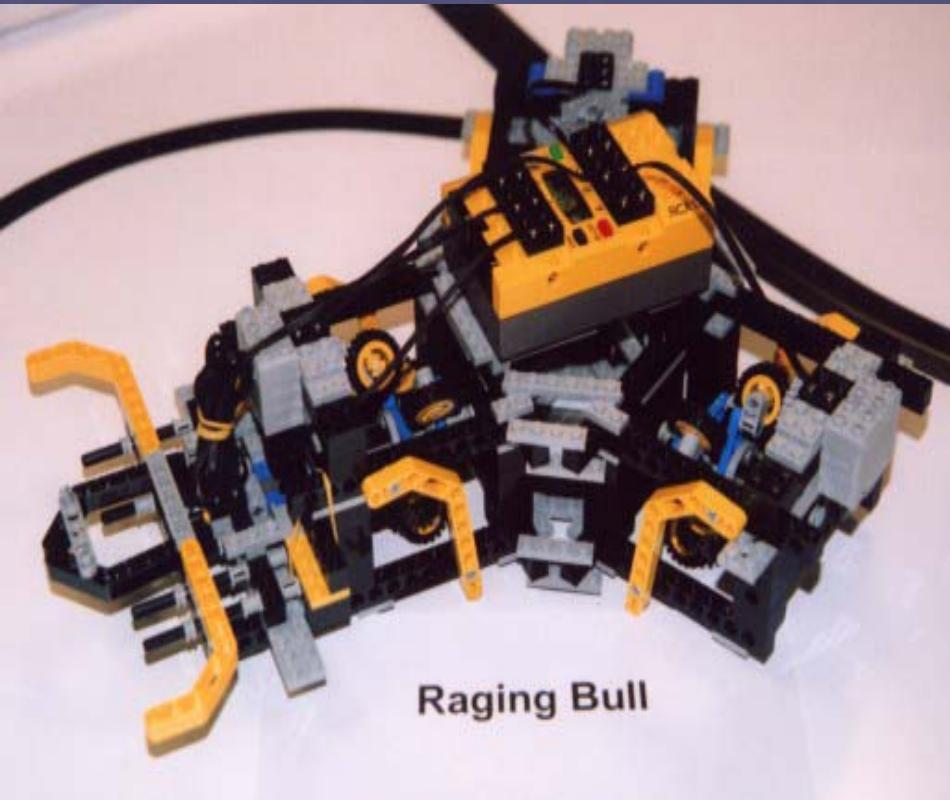
**The top view of our
sweet robot.**



The ‘Oregon Trailer’ in Action



The Raging Bull

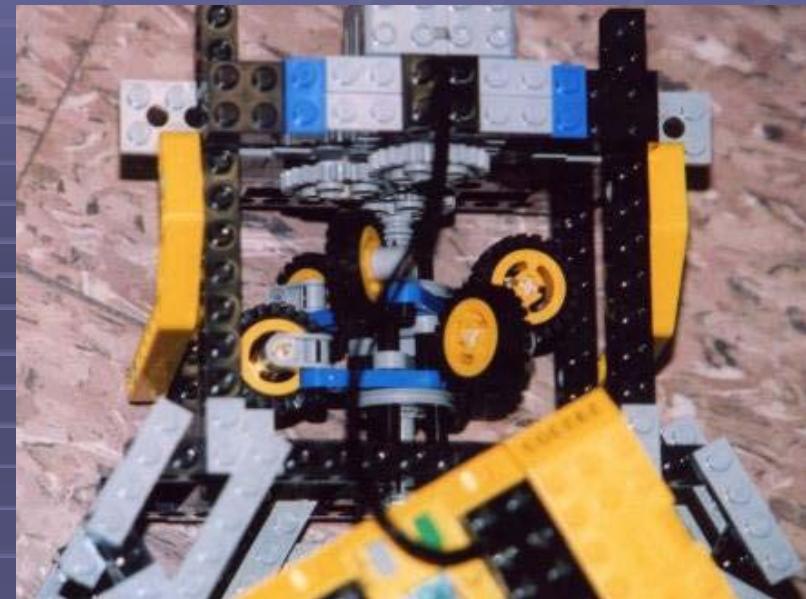


Raging Bull

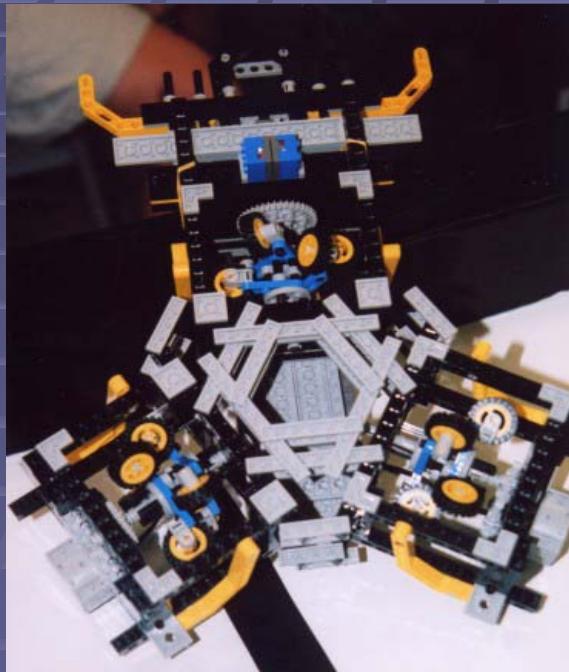


Daniel Burritt, Bryan Tansky, Alex Plotkin

- Wheel Design 

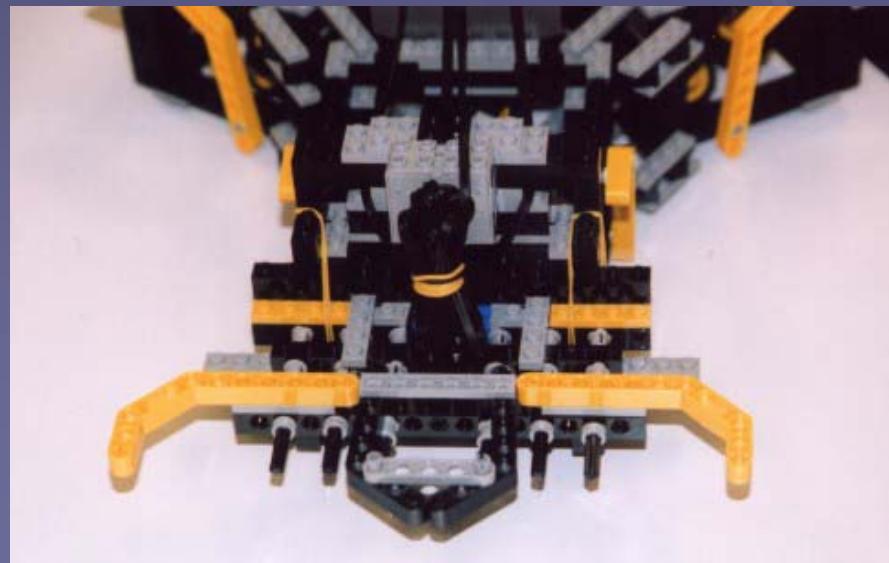


- Structure of Robot



- Troubleshooting

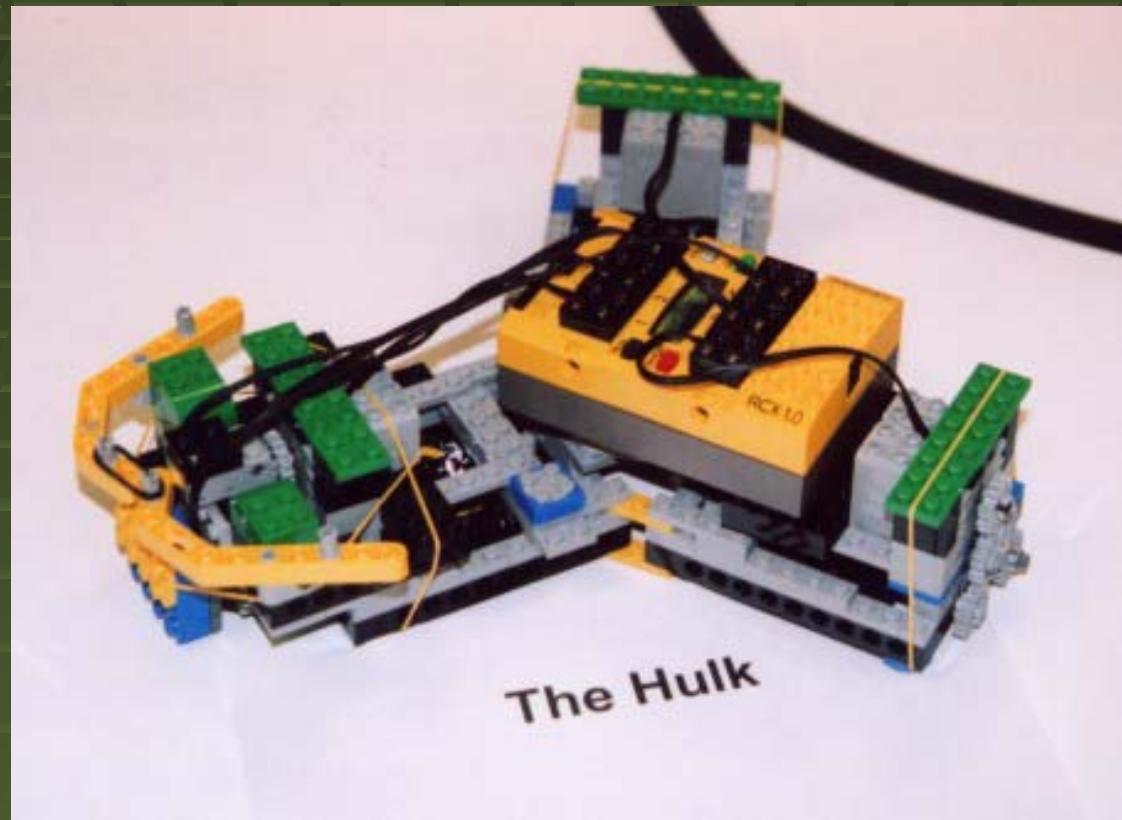
- Bumper System 



The 'Bull' in Action



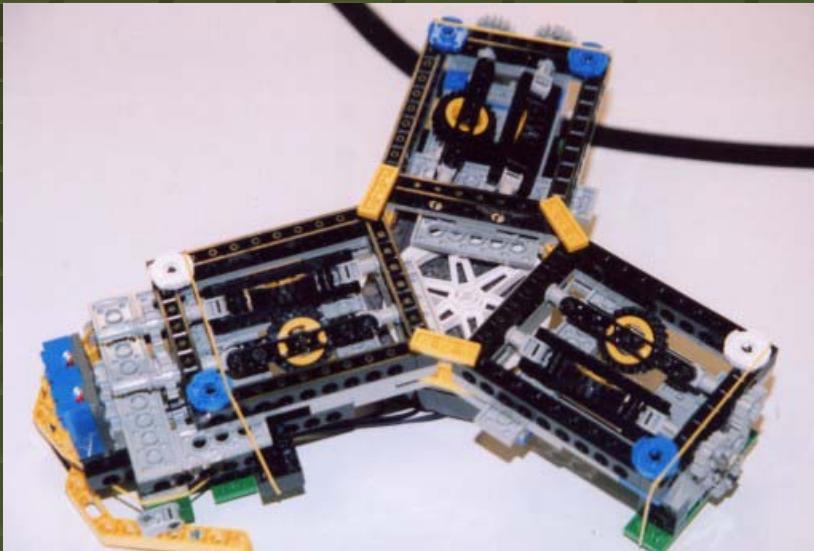
The HULK



David Little, Dan McCoach, &
Renee Philbrook

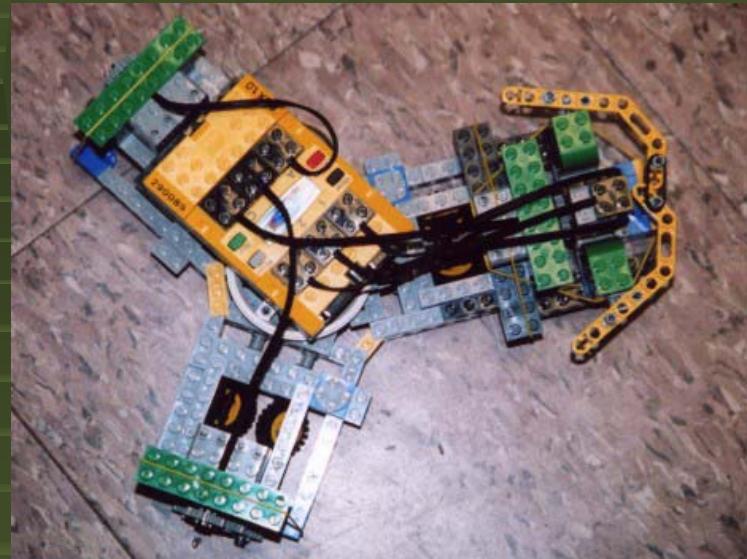
Wheels

Rotate end over end
instead of conventionally
spinning about an axis



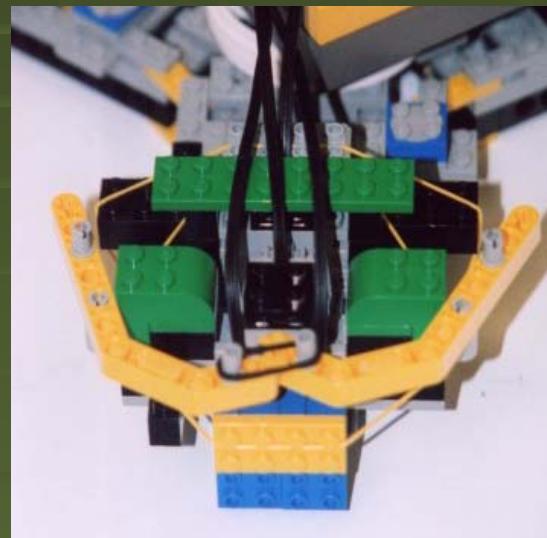
Platform

Killough's platform,
rotates about its center

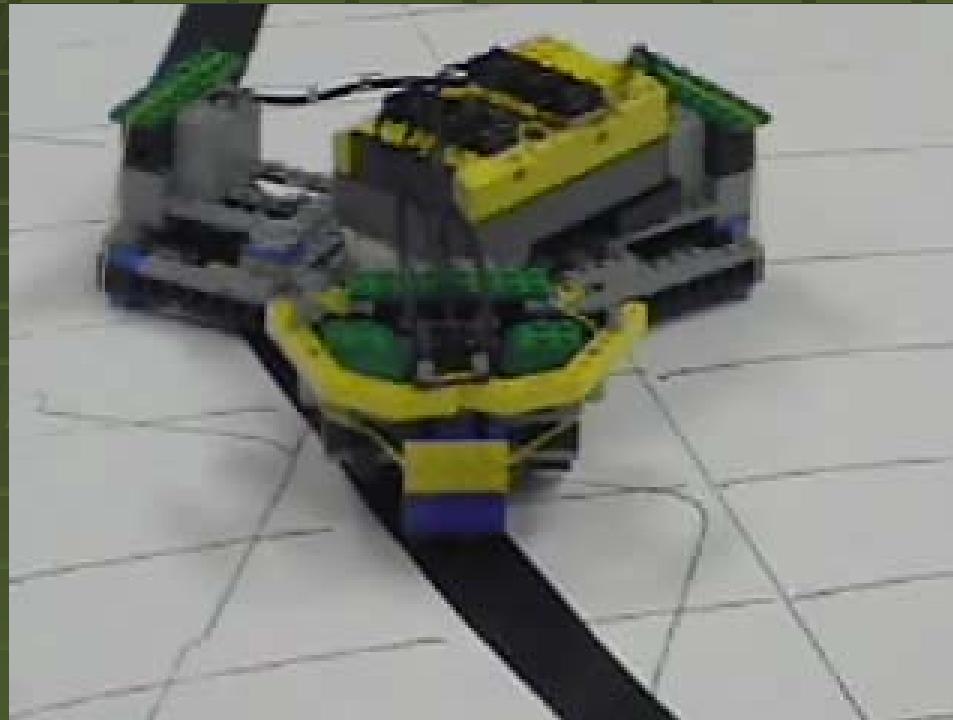


Bumper

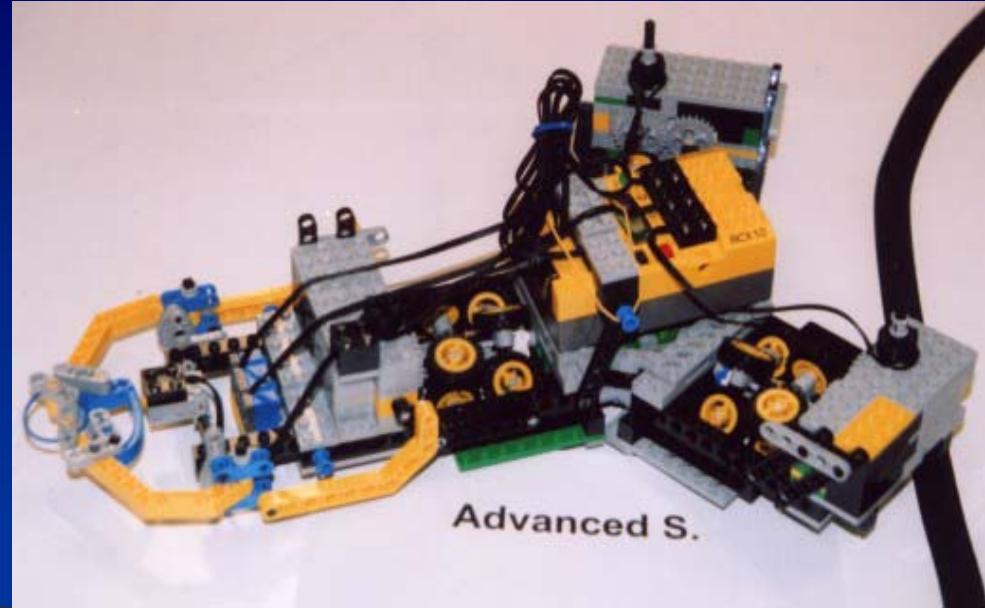
Had to test several designs;
The final design was reliable



The 'Hulk' in action

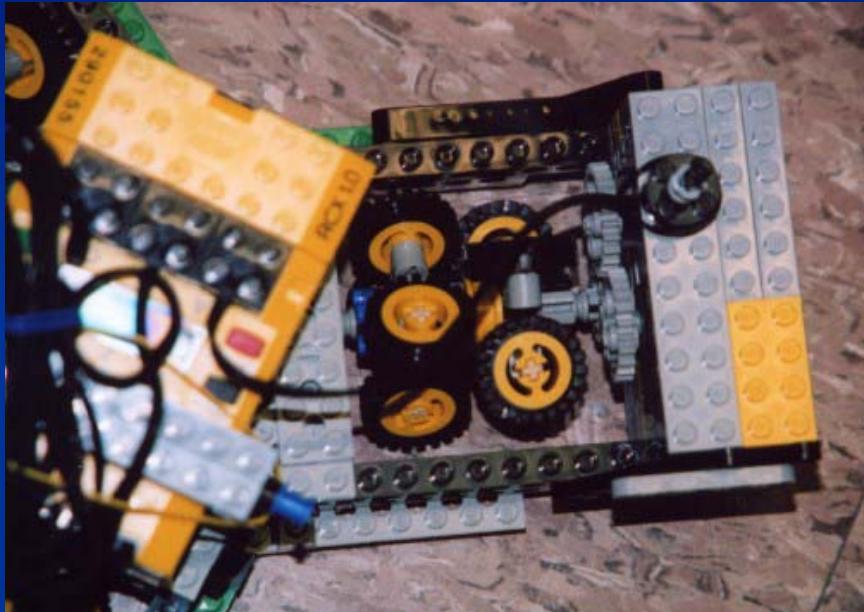


Advanced S.



Stenfan Dainard,
Benjamin Rice,
Stanislav Tsaney

Design

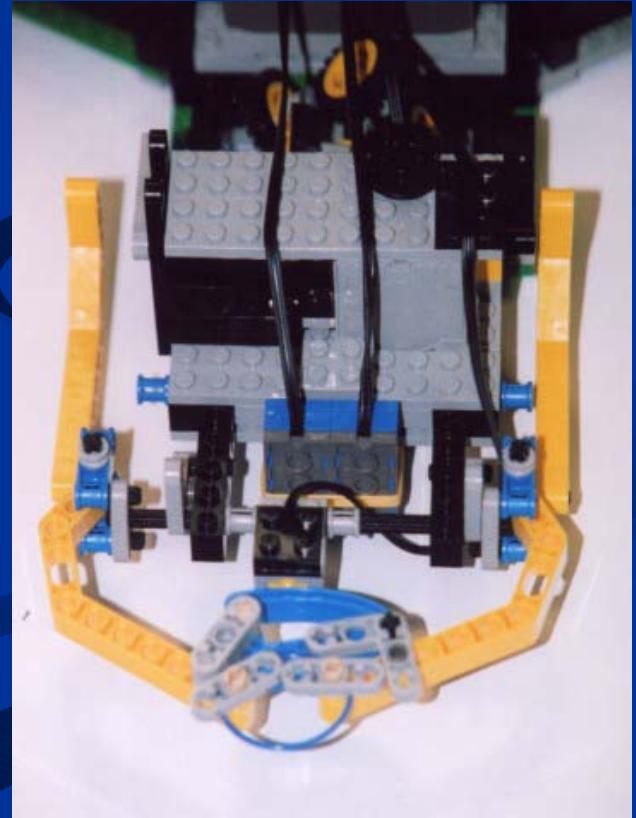


Motor and Wheels:

- 24 Wheels
- Motors on outside

Bumper:

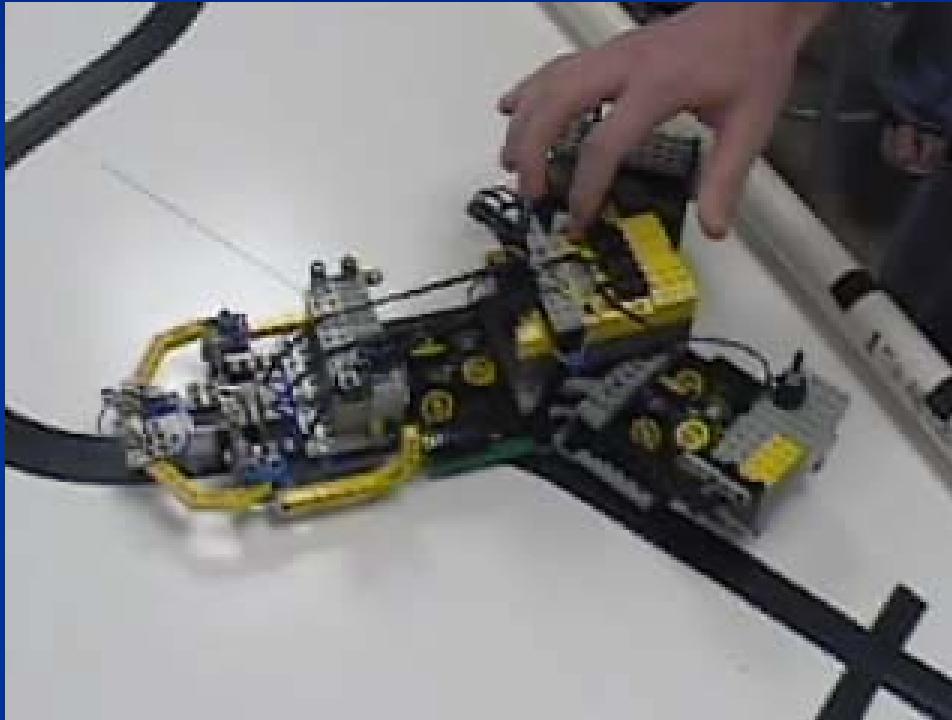
- Trigger at a 90° angle



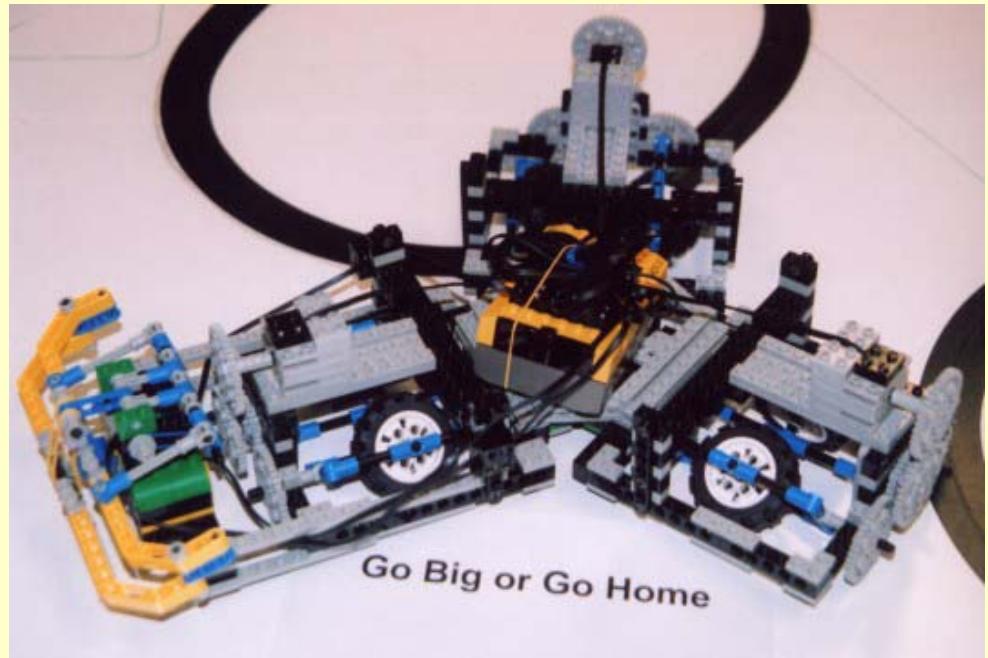
Problems? What Problems?

- Initially weak structure (added parts)
- Wheels popped off (added parts, changed direction)

The 'Advanced S.' in action



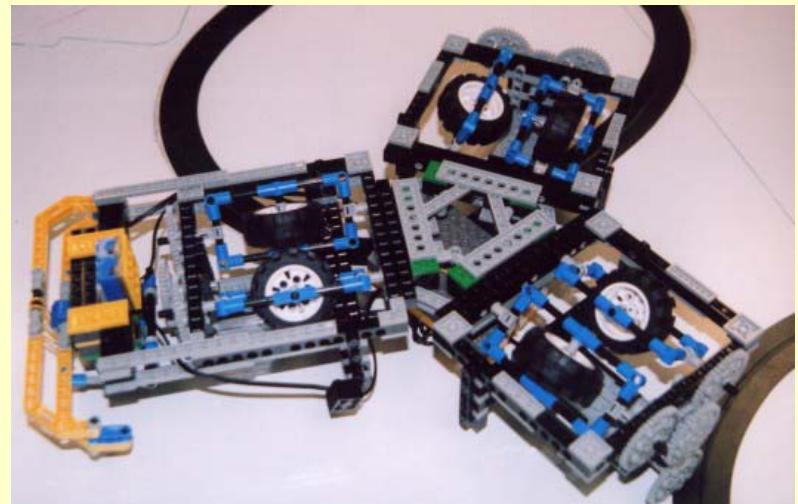
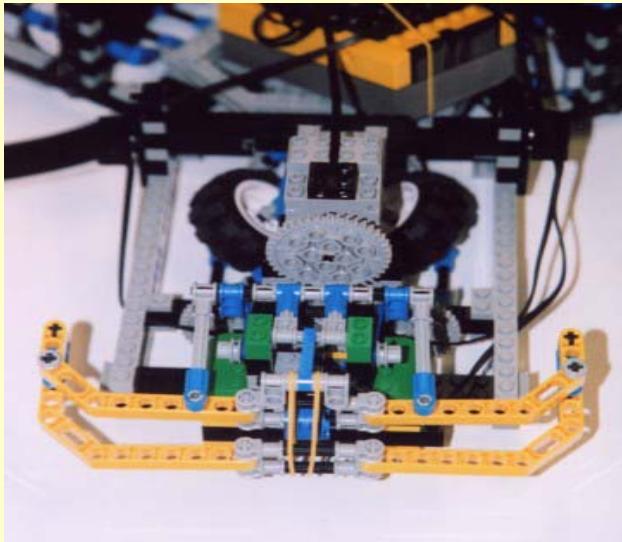
**"Go Big or
Go Home!"**



Team Members:
Chris Kim,
Luckshitha Liyanage,
& Sawyer Romich

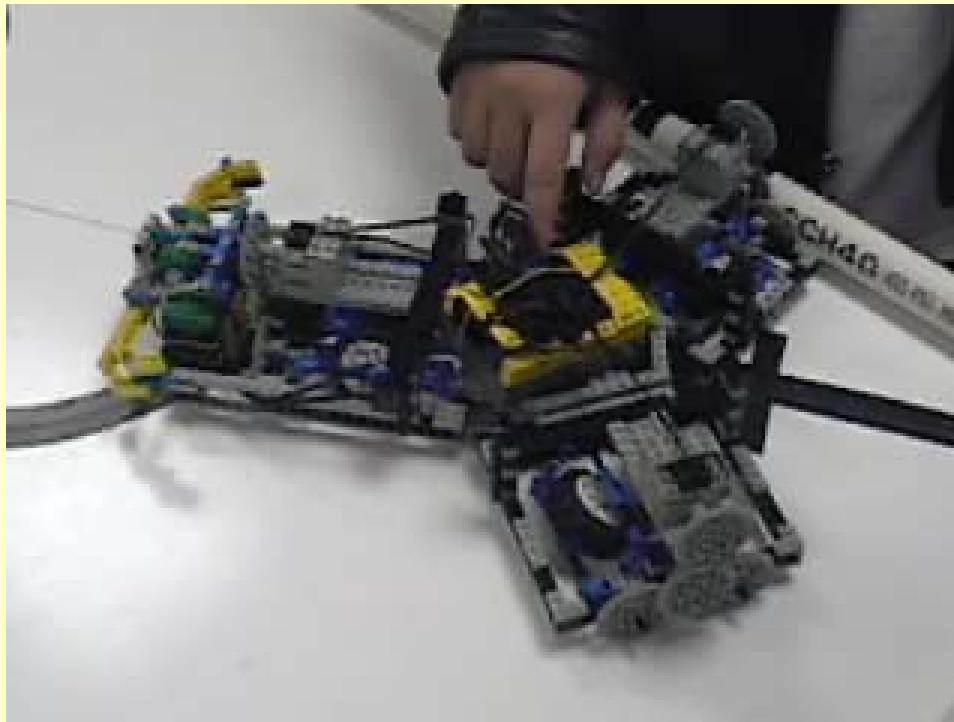
Ingredients for Success

- Large, Sturdy Robot Design

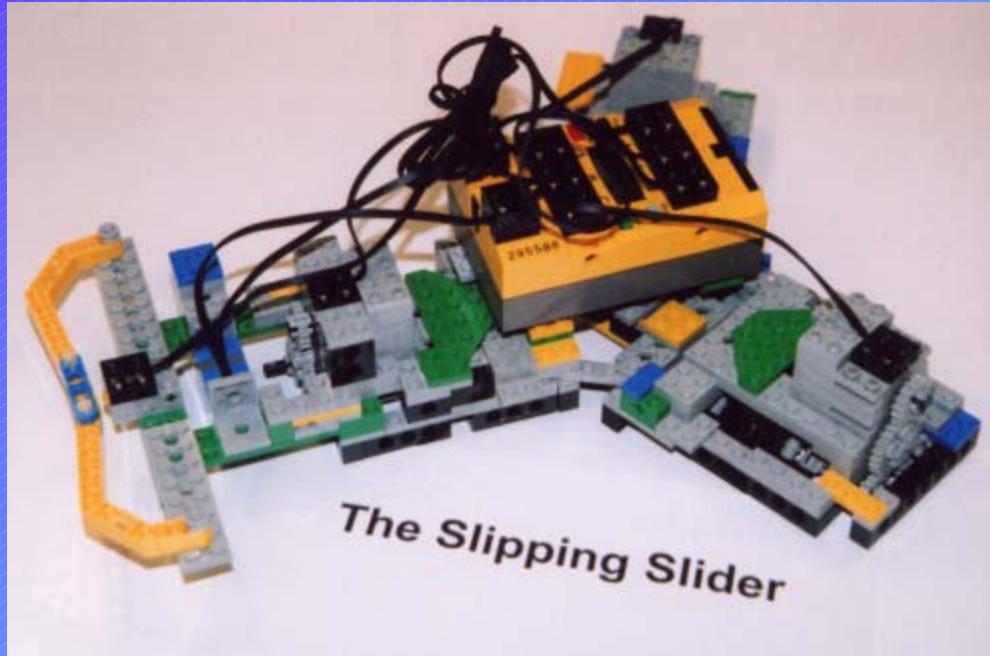


- Trustworthy Bumper
- Efficient Programming

'Go Big or Go Home' in action

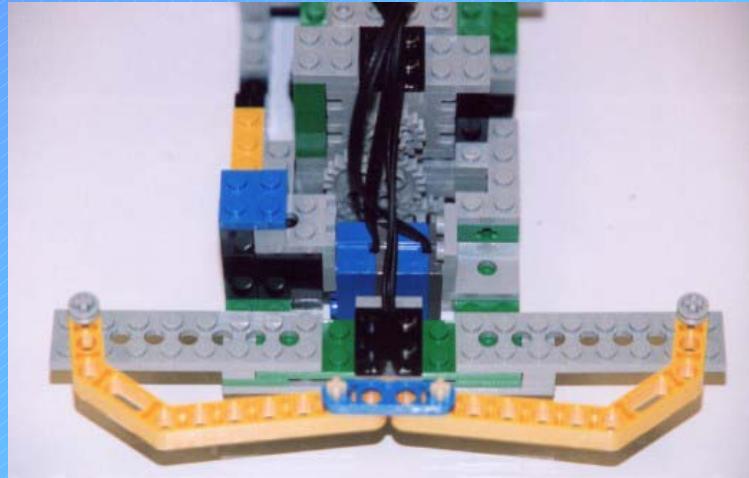
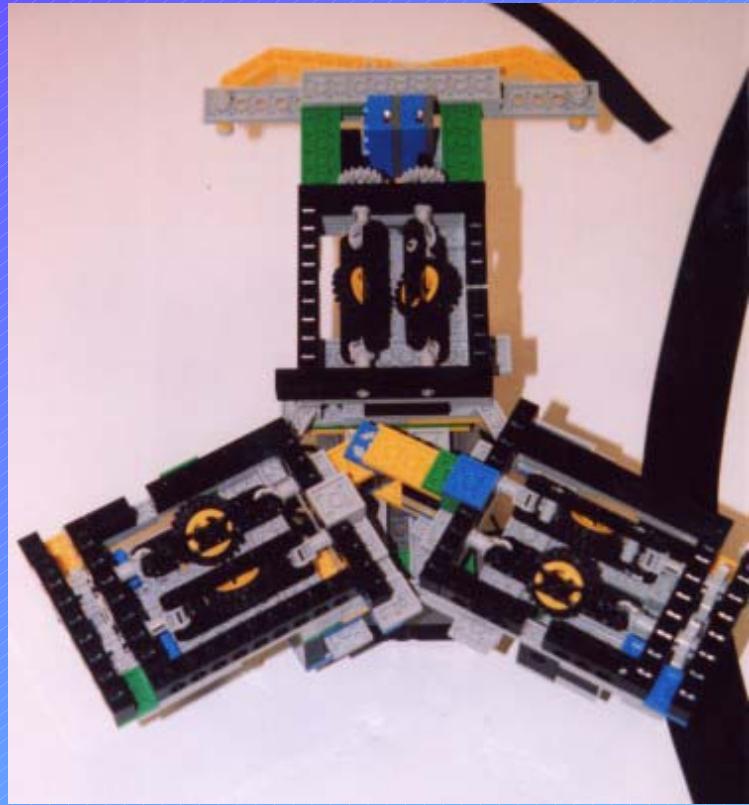


The Slipping Slider

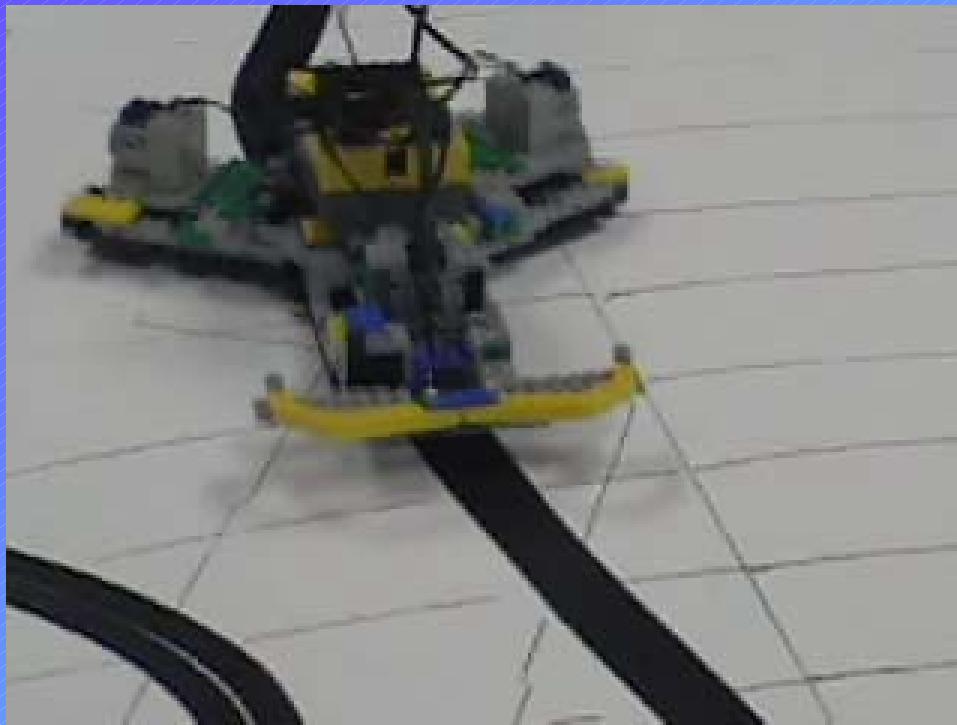


By Jason Schatz and Lee Polito

- Decided to go with smaller design because it would be easier to build.
- Mechanical problem of holding all 3 sides onto center and make sure axles don't fall off.
-reinforce bottom and axles
- Programming problem of telling which way to turn when totally off track. –use flags
- Programming problem of having robot bump, turn around and find the line.
-back up robot and put in a sleep, then have it turn until it finds the line
- Tried to make robot faster by putting in bigger gear. –didn't work because not enough power
- Wheels kept slipping.
- First couple bumper designs did not work.

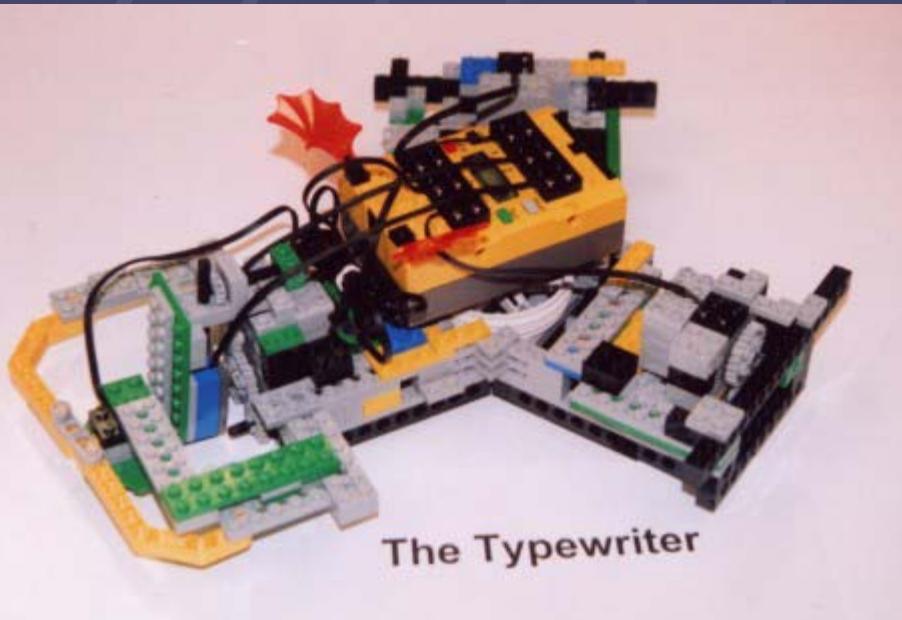


The ‘Slipping Slider’ in action



Mechanical Engineering Project

The Lego Robot – Aptly named “The Typewriter”

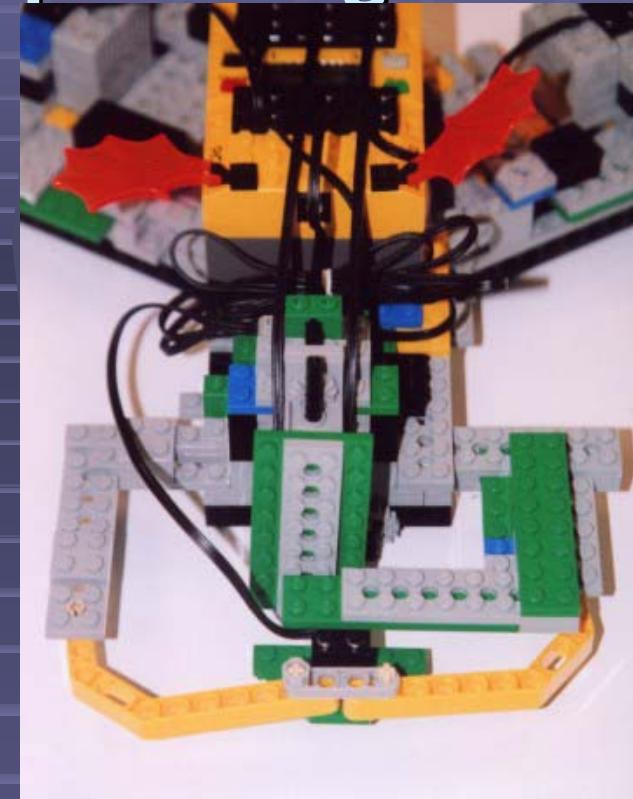
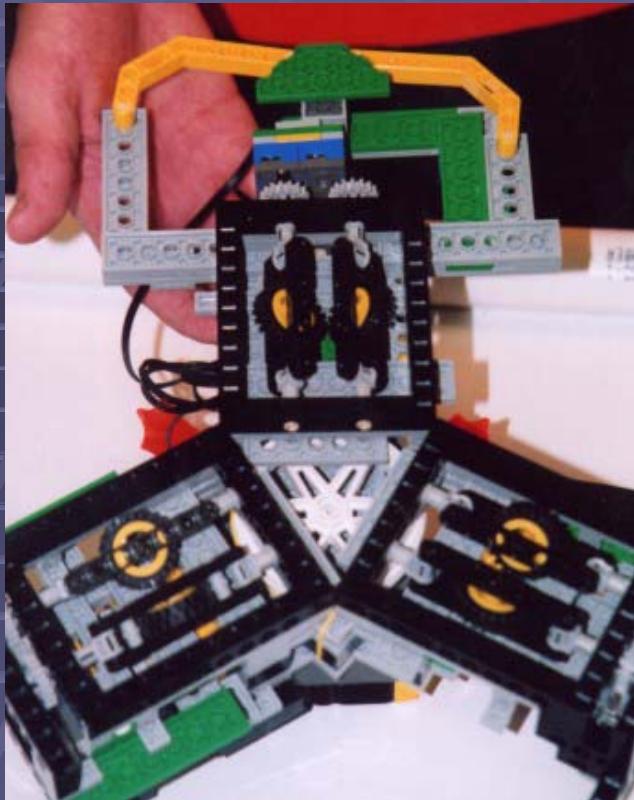


The Team Members:
Tim Palumbo & Jon Mercer



The Drive Train

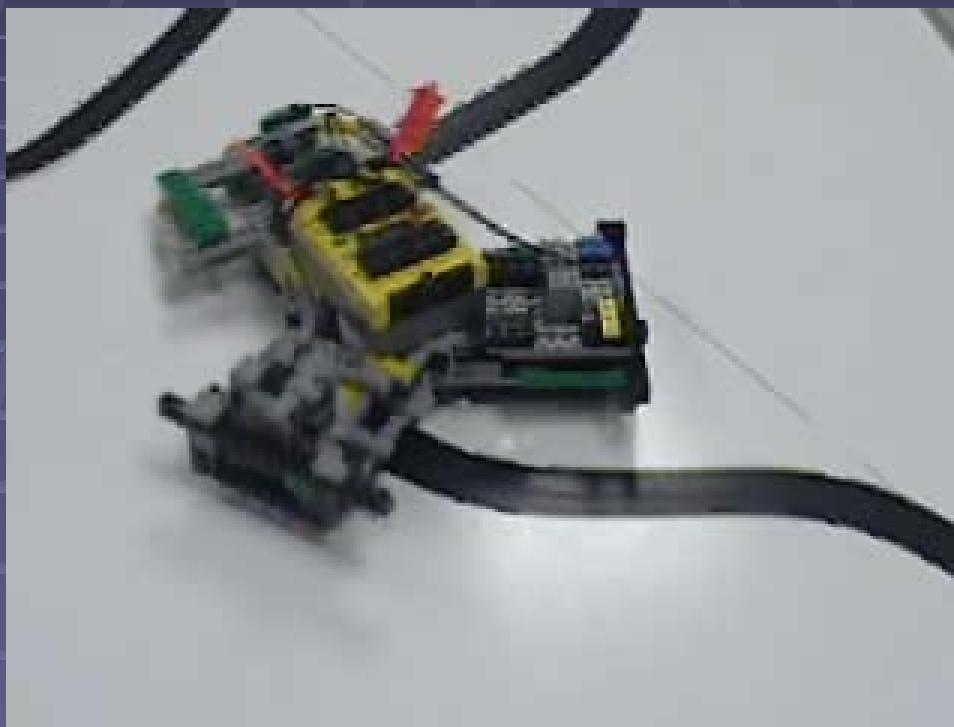
Bumper & Light Sensors



Other Key Points of Interest:

- Design Problems
- Programming Issues
- Practical Uses?
- Speed Issues with the drive train design used

The Robot In Action



The Shocker

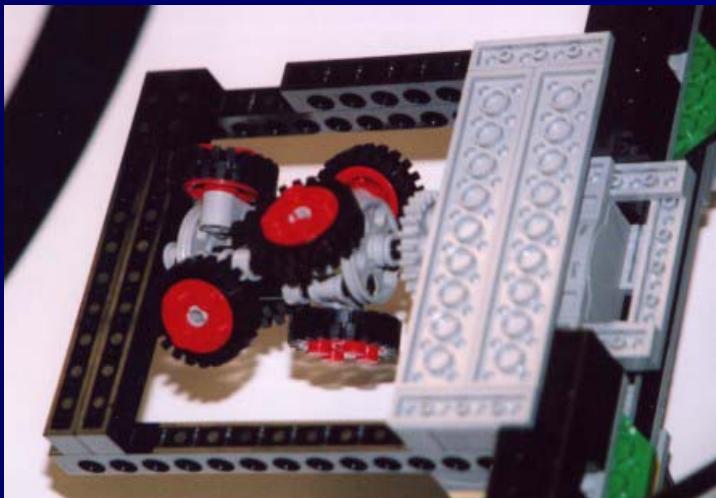
Mechanical Engineering Project



Issues

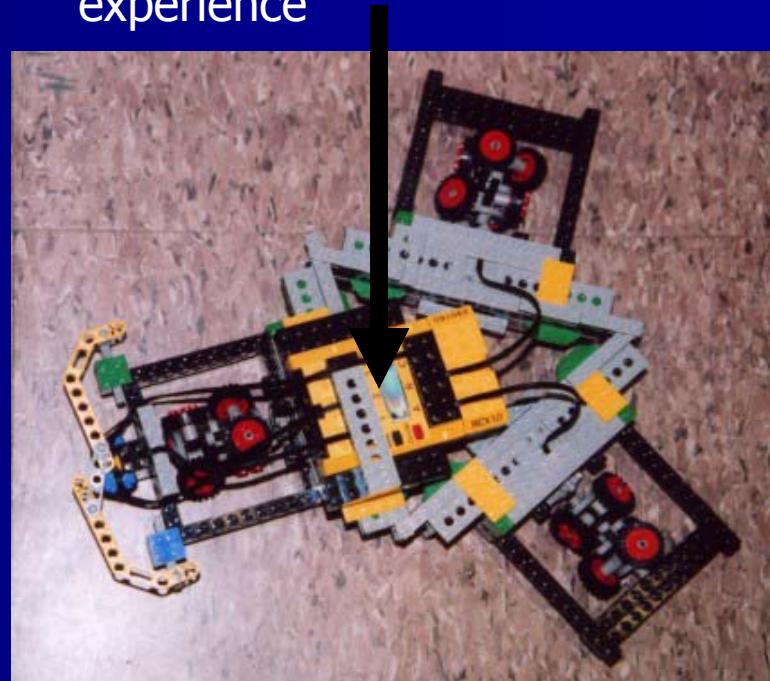
■ Gear Ratio-

Our initial gear ratio was very powerful but in effect did not allow for the robot to move with any speed



Programming-

Due to the fact that none of us knew how to program, we were put at a disadvantage to groups with experience



The Shocker

