Robotics Traveling Van

The Team

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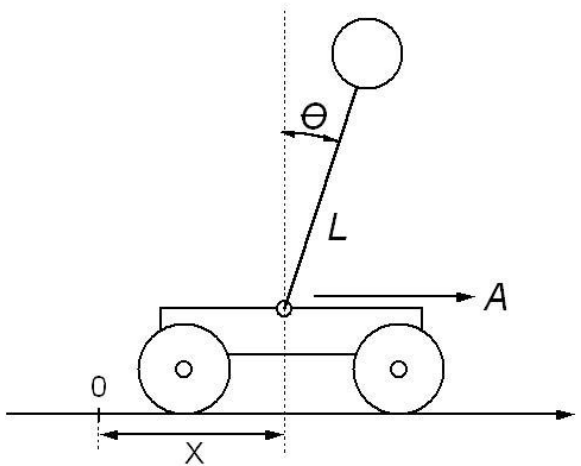
Introduction: Robotics Traveling Van

Pendulum Balancing Robot

- Must be interactive and kid friendly
- Balance a rod on top of robot



Interactive Robot of Choice

- Air Hockey Robot
- Ping Pong Robot
- Line Following Robot

Project Goals

- Build two physics robots
- Make a robot that is exciting for K-12 students to learn both about robotics and physics
  - With an interactive display
- Be able to demonstrate controls in action

Constraints

- Each unit must cost under $150
- Be able to mass produce – up to 100 units each
- Must survive a fall from a table onto concrete
- Follow CPSC guidelines for children's toys
- Fits on small school desks (~1 foot square)
- Battery powered
- $5000 budget ($1500 for prototype)

Timeline

- Week 3: First meeting with Capstone group and GTA
- Weeks 4-7: Choose parts and write code
- Week 8: Finish pendulum prototype
- Week 15: Finish interactive prototype

The End

- Any questions?