



2011 *FIRST* Robot - *Seraphina*

Drivetrain

- Six wheels driven by two CIM motors through Andy Mark Tough Boxes

Arm

- Aluminum truss construction with CIM motor chain drive and constant force spring counter balance

Grabber

- Two polycarbonate pieces with a pneumatic cylinder actuator to grip game pieces.

Sensors

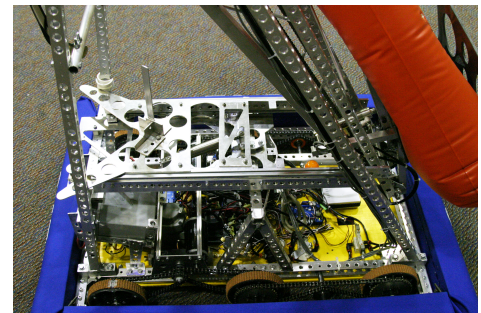
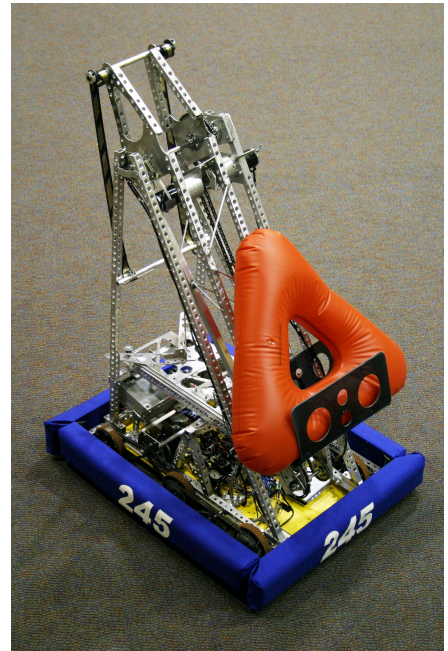
- Drivetrain encoders in each of the Andy Mark Tough Boxes
- Arm position sensor potentiometer with limit switches at the minimum and maximum travel positions
- Wrist position sensor potentiometer with limit switches at the minimum and maximum travel positions

Minibot and Deployment Mechanism

- Pneumatic actuated mini-bot deployment system with automatic pole alignment
- Minibot with dual Tetrax drive motors, zero friction neodymium magnetic pole grip and automatic reverse

Specifications

- **Weight:** 119.5lb
- **Dimensions:** 28 x 38 x 60



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