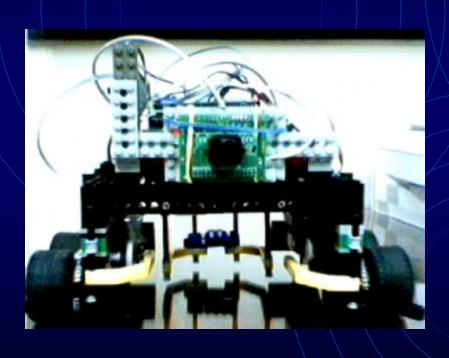


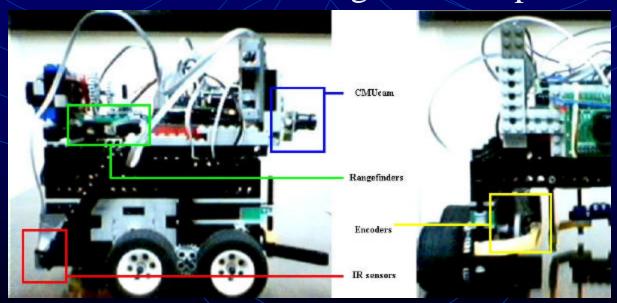
Hardware Overview



- Drive
 - 2 DC motors
 - 4WD
- Housing
 - Pass-thru undercarriage
- Traction
 - Wide wheels with wide wheel base
 - 5:1 gear ratio
 - Heavy robot

Sensor Overview

- Encoders Focus on Odometry
- IR Sensors Alignment
- ET Sensors Intelligent Cage
- CMUcam Handling the Unexpected



Software Overview

- World Model
 - Locations of blocks, destinations, and self
 - Keeps track of block population
- Deliberative Architecture
 - 3 Tasks, repeated until blocks are depleted
 - Actually, invokes reactive behavior for brief moment in block delivery cycle

Procedure

- Task 1: Obtain Block
 - Calculate nearest block and travel there
 - Close cage
- Task 2: Travel to Destination
 - Calculate nearest destination and travel there
 - Release Cage
- Task 3: Deliver Block
 - Move out of destination and signal delivery
 - Open cage

Success

- Hardware
 - Exceptional odometric control
 - Cage worked as planned
- Software
 - Code more than adequately tracked location
 - Should utilize more sensor capability

Questions?

