Status Report #5
Wheelchair Lift Remote

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Improvements to existing wheelchair lift remote
Overall Need

• The current signal integrity is weak, and improvements need to be made in the flow of the lift.

• Milestones:
  • Access to lift from ADI - Feb 20, 2008
  • Order transceiver and sensors - Mar 1, 2008
  • Implement sensors and transceiver with lift - Mar 14, 2008
  • Improve life motion - Mar 21, 2008
  • Implement in van - TBA
Recent Tasks

- Code for microcontroller
- Range testing remote control
- Researched various options for the sensor array
  - Bobcat Contact Sensor
  - Cylindrical Reed Sensor
  - FlexiForce Resistive Force Sensor
  - Devantech SRF 05 (Sonar Sensor)
Ongoing Tasks

- Obtaining wheelchair lift  
  - February 20, 2008
- Fine tuning microcontroller for lift arrival  
  - February 20, 2008
- Determining the best options for sensors  
  - March 1, 2008
Upcoming Tasks

- Test the signal integrity and range of remote in vehicle environment
- Integrate lift with microcontroller
- Integrate remote with microcontroller
- Design hardware interface for sensor array
Block Diagram

Diagram showing components and connections including:
- Vehicle Doors
- Lift Motors
- Sensors
- Microcontroller
- Receiver
- Remote Control/Transmitter
- Power Supply/Alternative Power Supply
- Power Supply/Battery

Connections and percentages are indicated in the diagram.
Questions?

¿Preguntas?

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