Wheelchair lift remote

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Improvements to existing wheelchair lift remote control.
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
- Order transceiver and sensors
- Implement sensors and transceiver with lift
- Improve lift motion
- Implement in van.
Recent Tasks

- Met with Todd Hargroder
- Decision made by CEO
  - Controller created using microcontroller due to start up cost.
- Implement on either Freescale HC12 and SoftBaugh ES449 development board.
- Decided to retain FPGA design.
- Order transceiver component package.
Ongoing tasks

- Attaining spare wheelchair lift
  - Expected completion: 2/01/08
- Website nearly finished
  - Expected completion: 1/31/08
- Finishing research and ordering parts
  - Expected completion: 2/01/08
Upcoming tasks

- Begin transceiver/code integration
- Installing circuitry onto lift prototype
- Begin testing wheelchair lift
- Integrate remote control with onboard system
Block Diagram for Wheelchair Lift

- ADC
- DAC
- Sensors
- Vehicle Doors
- Lift Motors
- Microcontroller
- Receiver
- Remote Control / Transmitter
- Power Supply / Battery
- Power Supply / Alternative Power Supply

Wire Connection
Wireless

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<table>
<thead>
<tr>
<th>Task Name</th>
<th>Duration</th>
<th>Start</th>
<th>Finish</th>
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<td>Wheel Chair Lift Development</td>
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