

Anti-Stupid Car

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Major Features

- Ability to send user controls and get car status through a RF Transceiver
- Ability to capture users input through a small joystick
- Ability to detect obstacles using a Proximity Sensors
- Servo Drive train
- Ability to indicate car status via LEDs

Planned Hardware

- Two MSP430 Launchpad
- Continuous Rotation Servos
- Multiple Proximity Sensors
- Analog Joystick
- LED driver to identify car status



MSP430 Features Used

- Digital I/O
 - To control the LED status indicators
 - To Control the Proximity Sensor
- ADC
 - 2 Channels used to read the Joystick Input
- Timers
 - Used to create consistent control messages
 - Used to determine if communication link has broken
- UART
 - To communicate over the RF Transceiver
 - Debug out through the USB port on the launchpad
- External Interrupt
 - Used to catch the Proximity Sensor input