

Zigbee MotorCycle Abstract



The project uses the SARD evaluation boards to drive a remote controlled toy motorcycle. An off the shelf motorcycle is utilized for the project. The built in radio controller is disabled and replaced with the SARD board which interfaces to the existing H bridge motor drive circuitry on the receiver board within the Motorcycle. The original steering control mechanism did not allow precise control so it was replaced with a standard RC servo. A Piezo gyro provides a fast turn rate indication to use for stabilizing the cycle while running.

The transmitter board utilizes the X accelerometer to transmit Left right turn indication to the Rx board and the Y accelerometer controls the Speed of the motor on the cycle.

