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ELEC 327 MSP430G2553 IR Motor Control

**IR Detection:**

Materials:

1. 21 Button NEC IR remote: <http://www.adafruit.com/products/389>
2. IR Sensor TSOP38238: <http://www.digikey.com/product-detail/en/TSOP38238/751-1227-ND/1681362>

The majority of infrared (IR) controllers transmit a digital code using a 38kHz IR signal. There are some that transmit at 40kHz, but the 21 button remote we were using transmitted at 38kHz using an NEC code output with a 940nm IR LED.

We used an IR receiver and decoder that came in a 3-pin package. By simply connecting Vcc (+2.5V to +5.5V) to pin 3 and GND to pin 2, we were able to get a signal out on pin 1. The IR Receiver, we were using was the TSOP38238 ([Datasheet](http://www.adafruit.com/datasheets/tsop382.pdf)) but any IR receiver will work as long as it is able to detect IR signals at the 940nm wavelength.