`Checklist

* ~~Arduino Due~~
* ~~TS4231 Board (3.3V)~~
* ~~Arduino IDE~~
  + ~~TS4231 LIbrary~~
  + ~~Teensyduino~~
* ~~Computer with arduino on it (Voltage and coding)~~
* ~~4 jumper cables~~
* ~~IR Light source~~
* ~~Oscilloscope with probes~~

Pseudocode: (modify config)

Steps to Check:

1. ~~Check output logic of teensy if its 3.3v~~
2. ~~Use pins 39(E), 37(D), GND, 3.3v out on Teensy~~
3. ~~Adjust the Example’s code~~
4. ~~Light must be shining on Sensor~~ ***~~before~~*** ~~bootup~~
5. ~~Boot up oscilloscope, have probes ready.~~
6. ~~Run configuration~~
7. ~~Attach positive probe to pin 39, attach negative probe to GND~~

# SUCCESS! On to the Next

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* 4 jumper cables
* Lighthouse + More

Notes:

TS4231 Pin *E* goes low whenever the sensor detects light. We aim to find the individual times of the IR flashes within the Arduino DUE’s code.

1. Collect Initial data
   1. Record time E is low, save to a file through serial
2. Analyze data in spreadsheet
   1. Look at similarities, and compare
3. Redo data collection, only this time display it live.
   1. See if similarities match up real time.