

Sociable Objects

Instructor: Rob Faludi
Class 3

Find & Fix

- presentations of first project

Documentation

- Tumblr at:
<http://sociableobjects.tumblr.com/>

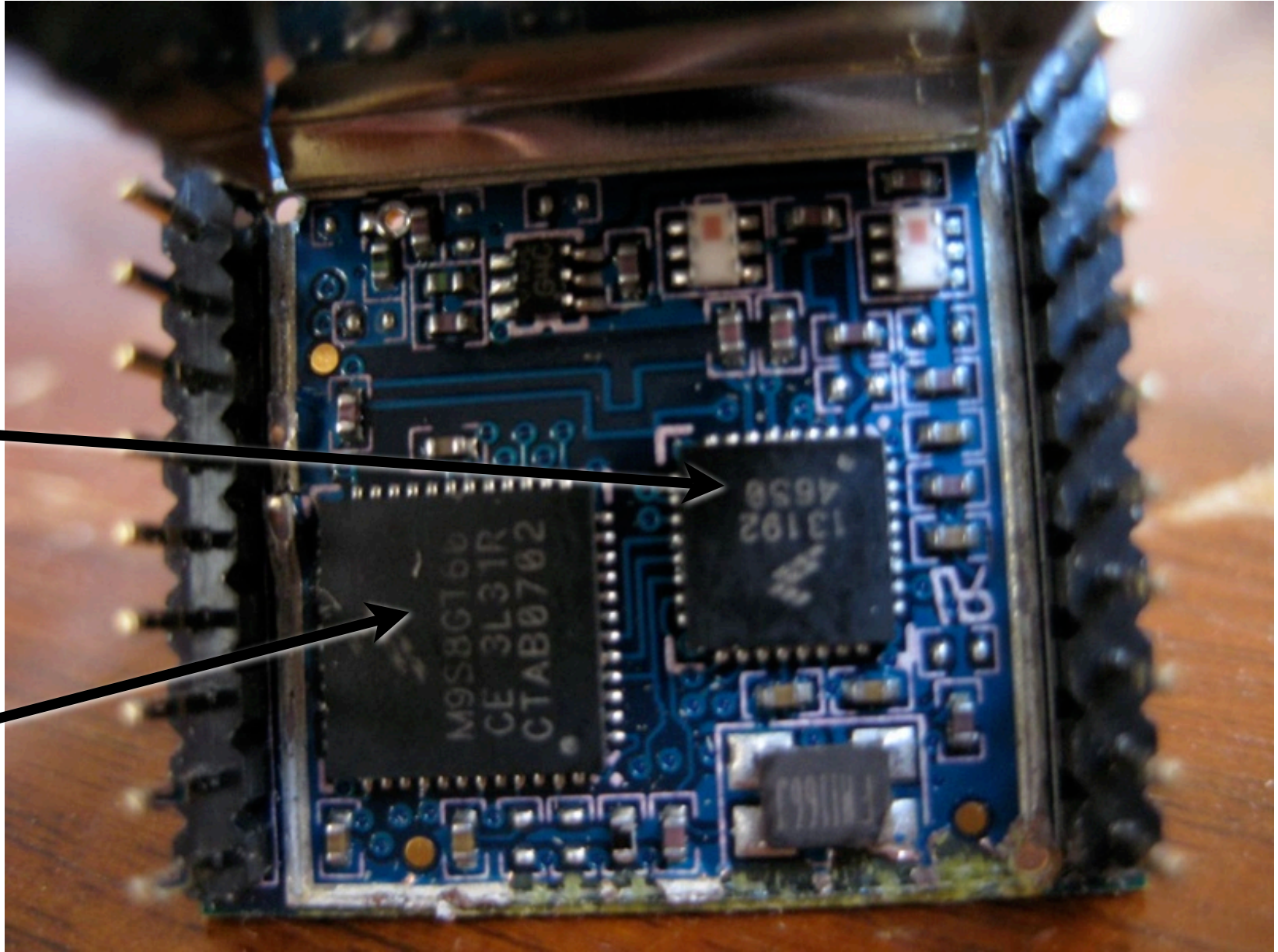
Warmup

- Simulclap

Readings

- Go over XBee Manual
 - 1.2 Specifications
 - 1.5 Pin Signals
 - 2.2 ADC and I/O Mode
 - 2.4 Addressing
 - 2.5.3 Sleep
 - 3.2 AT Command Table
 - 3.3 AT Commands
 - 3.4 API Mode

XBee Inside



802.15.4

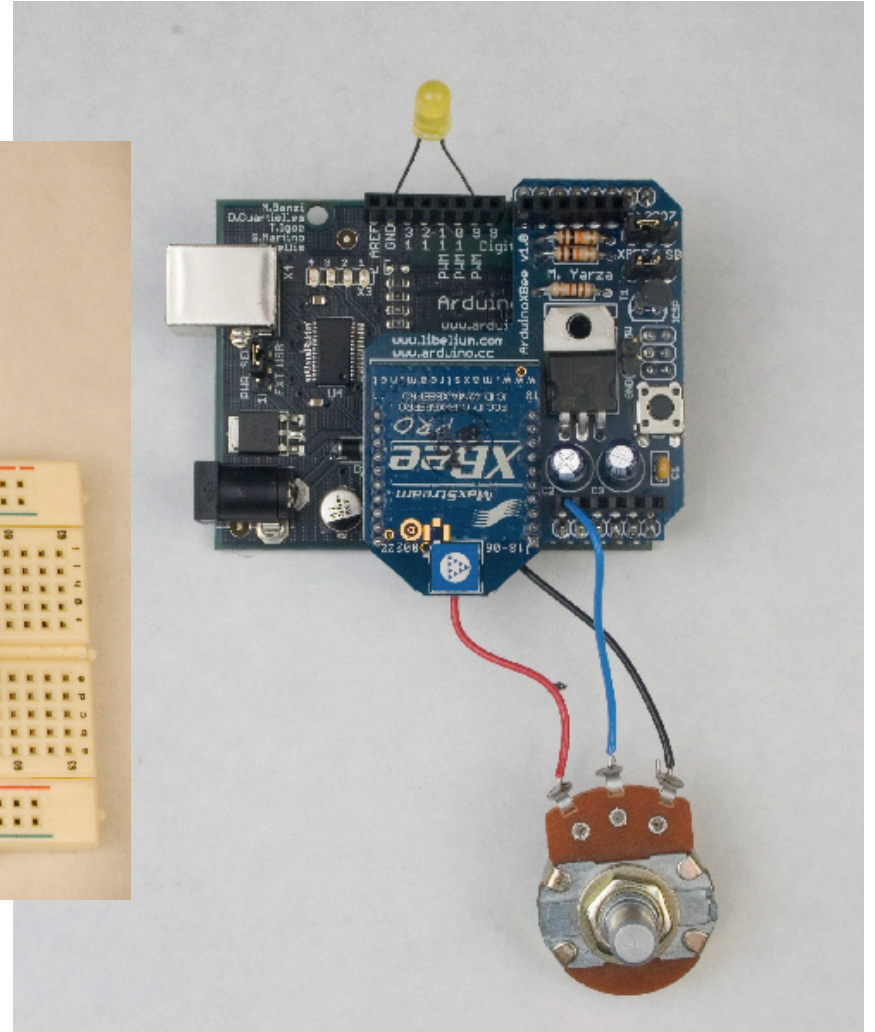
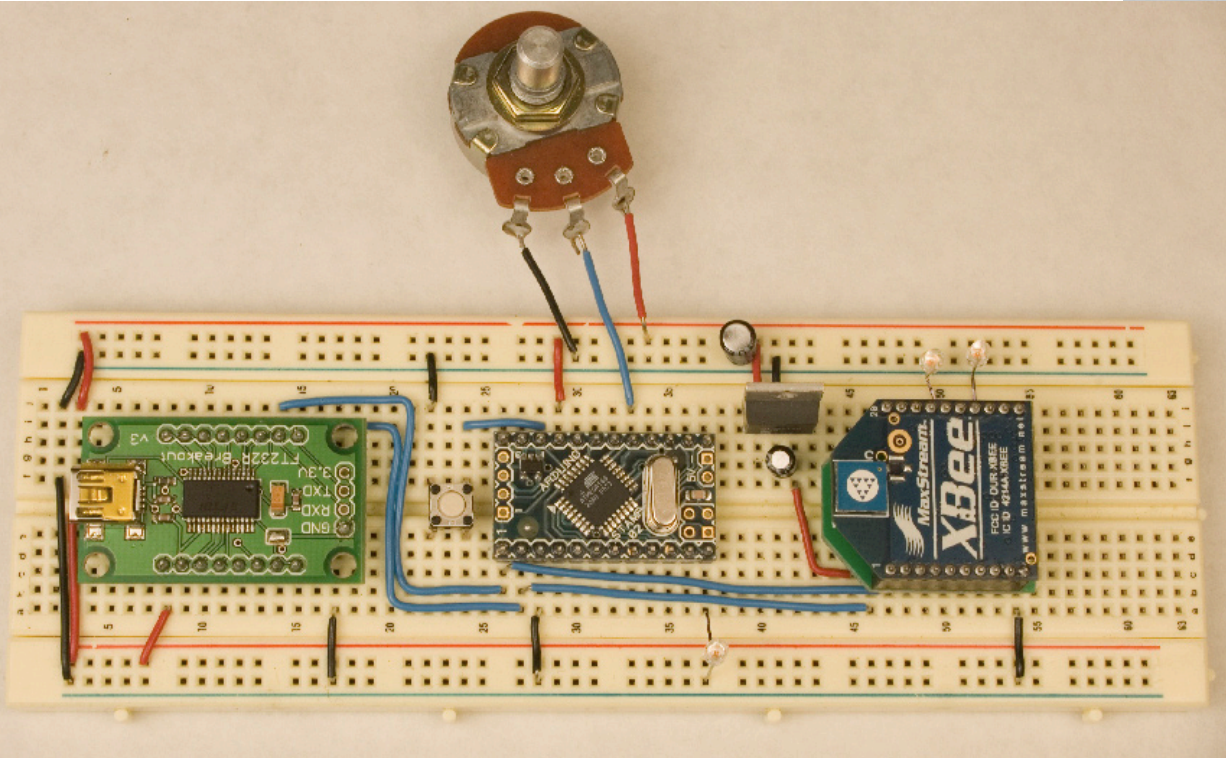


micro-
controller



Example:
Glow that LED

XBee Send/Receive



Readings and Assignments

- The Internet of Things: http://rob.faludi.com/classes/sociableobjects/readings/Nature_Everything_Everywhere_2006.pdf
- Vehicle Warning System Trialed: <http://news.bbc.co.uk/2/hi/technology/6461831.stm>
- 'Smart dust' to explore planets: <http://news.bbc.co.uk/2/low/science/nature/6566317.stm>

- Glow That LED

Lab Hours

- Friday 2 - 5 in PComp Lab