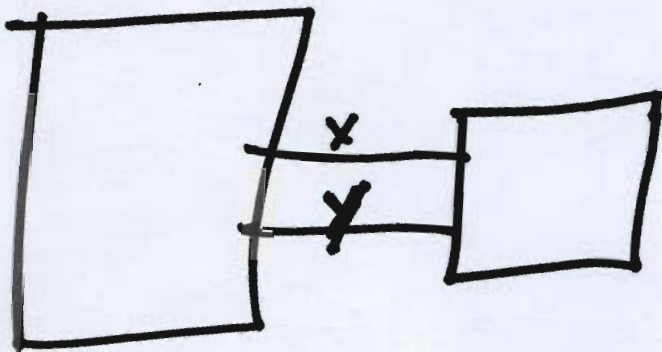
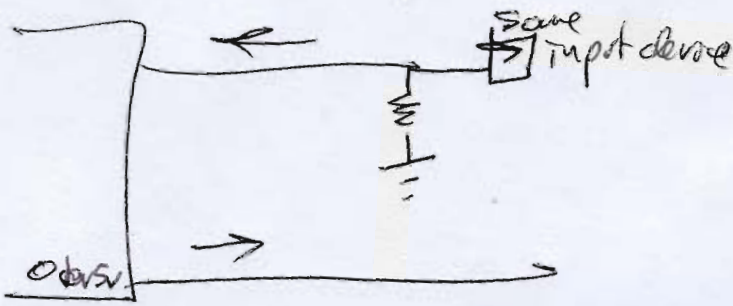


ECGR 4161 - Extra Notes 1/28/09

①



0 to 5v

— horizontal board
~ 2.5V range is
2.0 to 3.0

To identify the voltage
run the board in debug &
inspect the value of x & y

Read 8 bits or 10 bits

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$$\text{data} = 8 \text{ bits} = 2^8 = 256$$

$$10 \text{ bits} = 2^{10} = 1024$$

②

5 Volts V_{ref+}

if 2.5v 8 bits = 127

10 bits = 511

Steps

$$\frac{5v}{256} = 19.5mV$$

$$\frac{5v}{1024} = 4.9mV$$

Temp store = ad0 & 0x03ff;

always
0?

&

10000 0001 1111 0000
0000 0011 1111 1111

0000 0001 1111 0000

Questions ECGRAIGI- Extra Notes - 1/28/09 ③

What is the role of a brain for motion of a biological being?

Examples: (from video & reading)

A lot is localized

Simpler Control?

Parallel systems?

localized to control basic motion

Higher level for "mission-directed" motion

Subconscious role of motion?