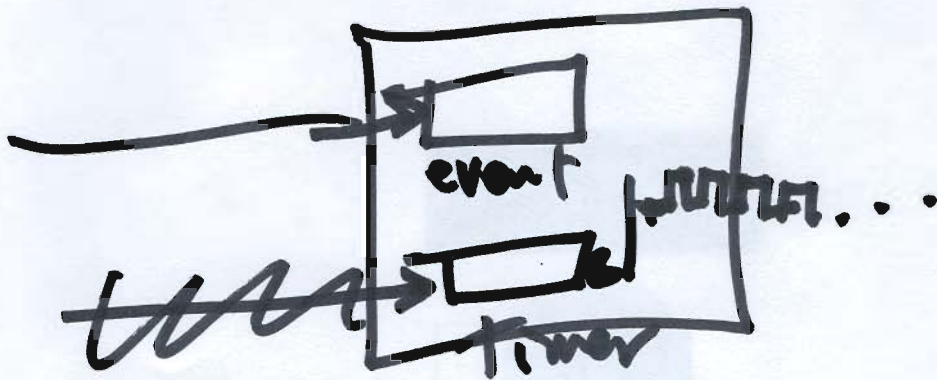


ECGR 4161 - Extra Notes 2/25/09

①



Algorithm

Reset both counters

After timer counts 1 second,
read event counter

IF $\text{events} < \text{desired count}$
increase voltage by x

else IF $\text{events} > \text{desired count}$
decrease voltage by y
else stay the same

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Desired $f = 50 \text{ Hz}$

②

If you are outputting

.5V, count 60Hz

decrease V by....

$$\frac{.5V}{60\text{Hz}} = \frac{XV}{50\text{Hz}}$$

Each step size $\sim .02V$