

OI Trigger Circuit Notes

AUV

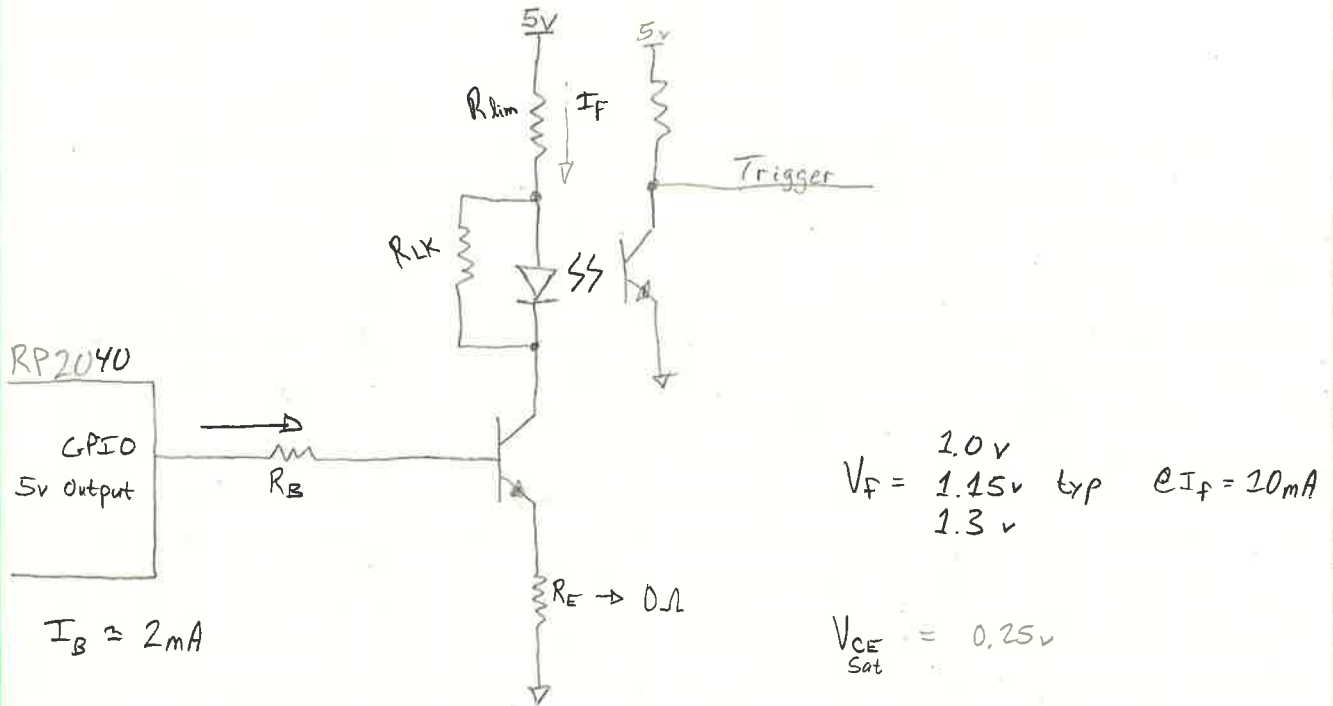
Custom circuit board

333 msec interval

1 msec ON time $\rightarrow$ Trigger input on RESON

$\rightarrow$ could go to Kearfott too

Outputs are optically isolated



$$\frac{5\text{V}}{2\text{mA}} = 2.5\text{k}\Omega = R_B$$

$$R_{lim} = \frac{5\text{V} - 1.15\text{V} - 0.25\text{V}}{10\text{mA}} = 360\Omega$$

Leakage current through photodiode is $10\mu\text{A}$ max

Lowest V_F which can't be detected is $< 0.8\text{V}$ $\rightarrow$ shoot for 0.5V to be safe

$$R_{LK} = \frac{0.5\text{V}}{10\mu\text{A}} = 50\text{k}\Omega$$