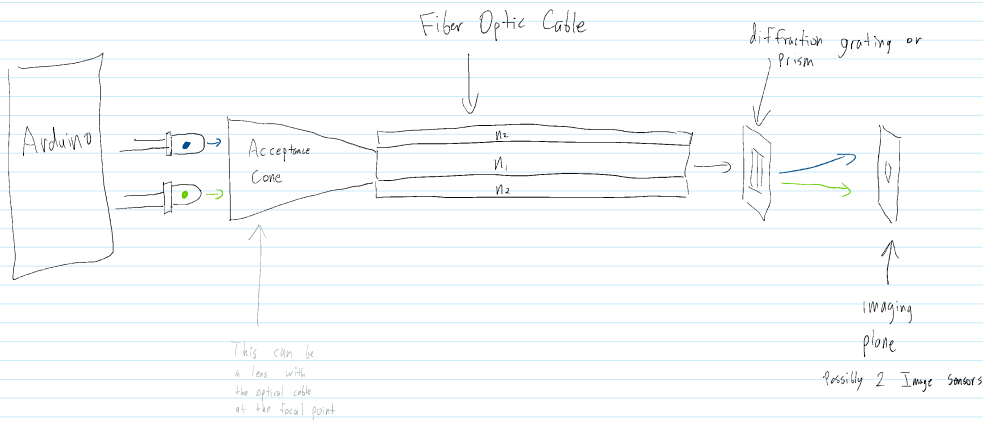
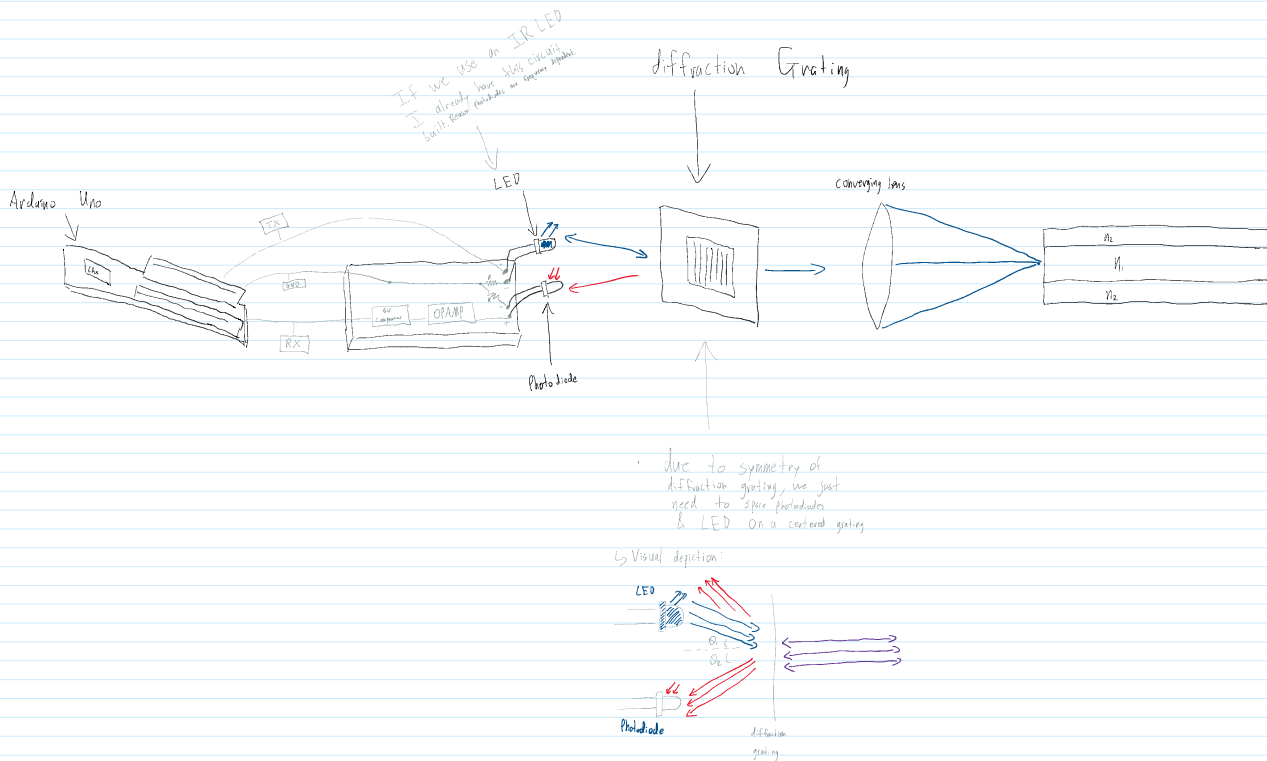


Draft #1



Draft 2 w/ Explicit Acceptance Cone



Otherside is just a mirror image of this setup but with different wave length LED

Notes:

- for multiple frequencies we will need more photodiodes & LEDs
- we should be able to stack photodiodes and/or LEDs if we can't get enough spatial separation

?? unsure if lens should go before or after the diffraction grating

- LED positive lead should be tied directly to Tx
- Photodiode goes through 2 OPAMP circuit to convert to SV logic for RX
- possible delay introduced in this step
- Possible Reflections may cause noise in signal interpretation

Due Outs:

* Ask Don for photodiodes & LEDs (primarily photodiodes)