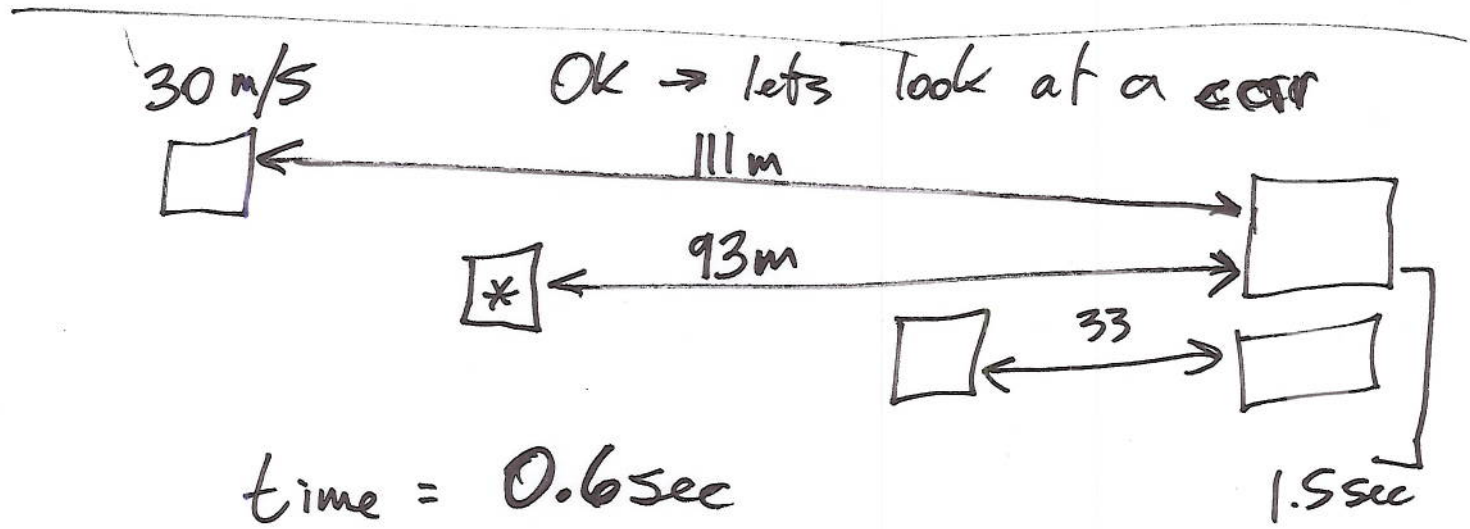


ECGR4161 - 7/26/10 orders of magnitude

Robot 1 m/s
 driving 28 m/s
 sound 340 m/s

1 orders of magnitude (1)

5 times



Travels = 18 m

$$x + x + 18 \text{ m} = 340 \frac{\text{m}}{\text{s}} \times 0.6 \text{ sec}$$

$$2x + 18 = 204 \text{ m}$$

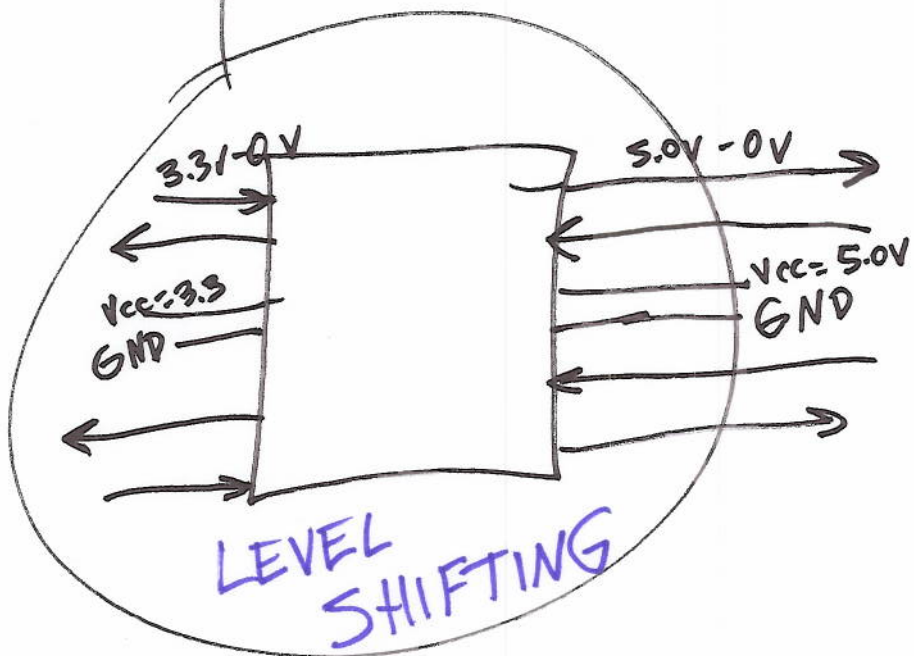
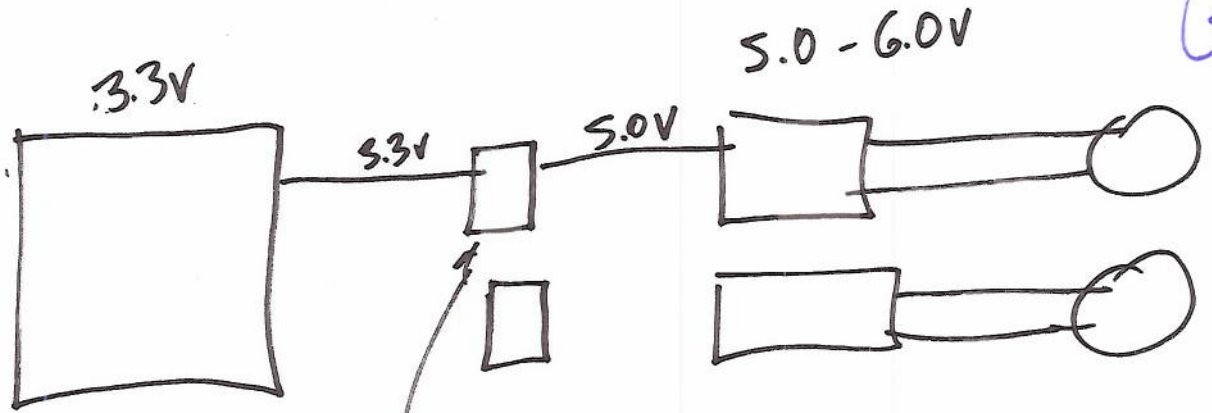
$$2x = 222$$

$$x = 111$$

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2



Sensors:

- hall effect
- QTI sensor