1) Problem Purpose: To calibrate a load sensor to be able calculate thrust within a 95% certainty.

2) Known information:

PerformanaSersitivity = 50 mV/16 ± 15%

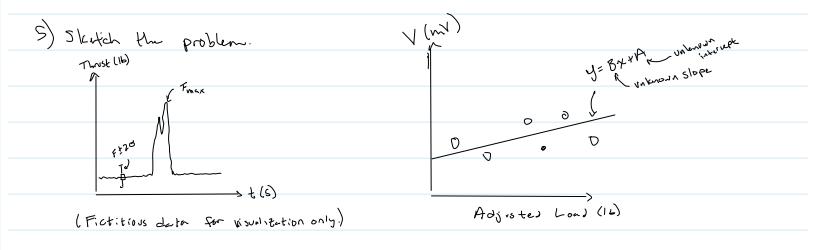
(assuming applied load is split menenty in the channels)

Uncertainties should suport 95% or 20

3) Determine what to find: The slope and y intercept of the line of best fit

Find callibration fits to convert throst data from my to 16. Calculate average peak throst.

4) Simplify The Problem: Assume thrust data given is accurate and any obvious outliers in the data may be removed.



6) Deturine fundamental principles

Data from sensors will have associated error, which will propigate through calculations.

95% of data will fall within &+ 2 ox

7) Alternate approaches:

Compare given thrust data with expected Mrugt data

(This will probably be more erroreous; many calculations will ture please
with their own grows.)

Store data in matrix

Scotter plot the channel deta

Create a line of best fit for both Channels

Plot lines of best fit, +200ge

tratiapolete volg best fit model

Convert voltage to thrust using callbration

[Calculate max peaks thoust, F, OF

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