Good Report Doc <https://docs.google.com/document/d/1S7VmIZ7jJlvjG3Ez9xaDtISa_bWjjwCTQJ1b7FSeh8g/edit#heading=h.vydniszftb1n>

Who does what:

Gear train calcs (Steven, Friend)

Power screw calcs (Gianni, Amran)

Speccing, costing components, basic SolidWorks assembly (Husein)

Poster (Hassan, Ricky)

Report (everyone)

Timeline:

1. Power screw param range calculation
2. Spec power screw from range
3. Gear train param range calc from given power screw
4. Spec gear from range
5. Poster / report

Use cheapest parts to maximize ratio

Report requirements:

* a sketch and description of your chosen device, including geometry and materials of the gears and power screw (annotated solidworks model?)
* input power, torque and rotational speed to your gear box design (i.e. design motor output)
* input power, torque and rotational speed to the power screw (i.e. output of your gearbox)•gear train value, e, and efficiency, η, of your gearbox
* the gel flow rate (mL/s) during the compression stroke
* the overall cost (gear and power screw components) for your design•the performance metric from page 1 (volume flow rate /cost [mL/($∙s)])

Poster requirements:

Your poster should contain a sketch or drawing of your proposed solution along with a summary of key assumptions, values, and calculations It should also specify the total cost of your design, the maximum flow rate, and the flow rate-to-cost performance metric from page 1

Report outline

* Title page
* Summary (brief and point form)
* Appendix (details)