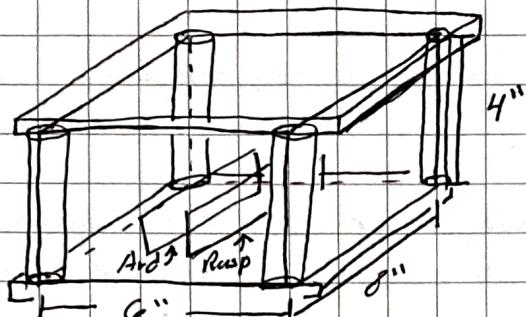
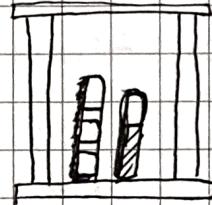
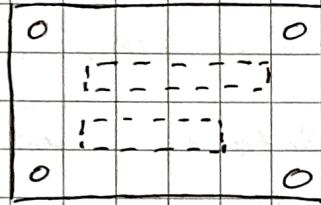


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February 19<sup>th</sup>, 2023Base:Idea 1:Raspberry Pi 4 Dimensions:  $3\frac{3}{4}'' \times 2\frac{1}{4}'' \times 3\frac{3}{4}''$ Arduino Uno Dimensions:  $2\frac{3}{4}'' \times 2\frac{1}{4}'' \times 3\frac{3}{4}''$ 

1.5g inch

February 20<sup>th</sup>, 2023

- Need to acquire parts □
- Sketch remaining parts for fabrication □

Acquiring Parts: Fill out request form, e-mail Karl with all Amazon lists. He will submit to CSE Accounting, receive parts in about a week

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PROPRIETARY INFORMATION

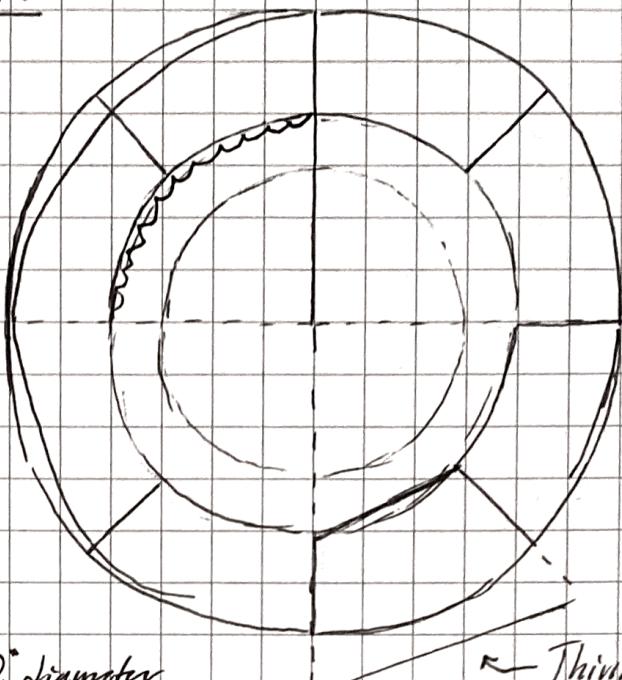
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Sp. in.

7

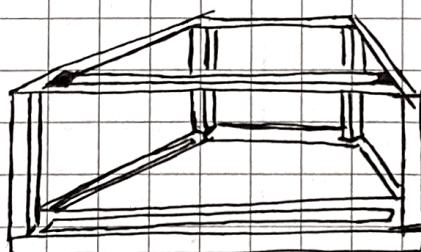
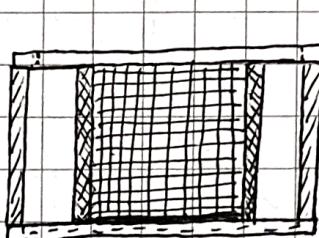
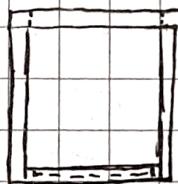
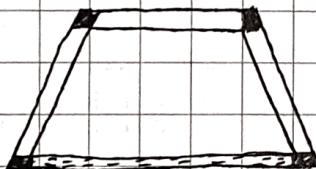
More Sketches:

- Motor Housing
- Stepping Mechanism
- Rotating gear
- Housing
- Sliding Screw Mechanism
- Step Screw Housing
- Dispensing

Gear:

Note: Standard Spice 5" tall x 2" diameter  
 $\approx 15.7 \text{ in}^3$

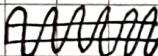
→ Thinking about projecting out for housing

Housing:

- Open Frame
- Able to slide plexiglass in
- No bottom, attached to dispensing mechanism

Screw:

⑥



- Need a way to attach Screw to dispensing base plate

→ Archimedes Screw



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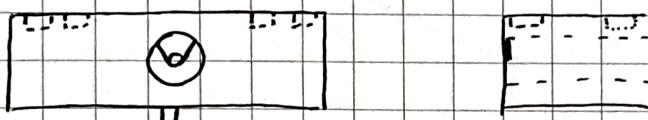
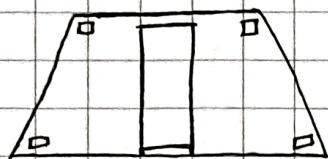
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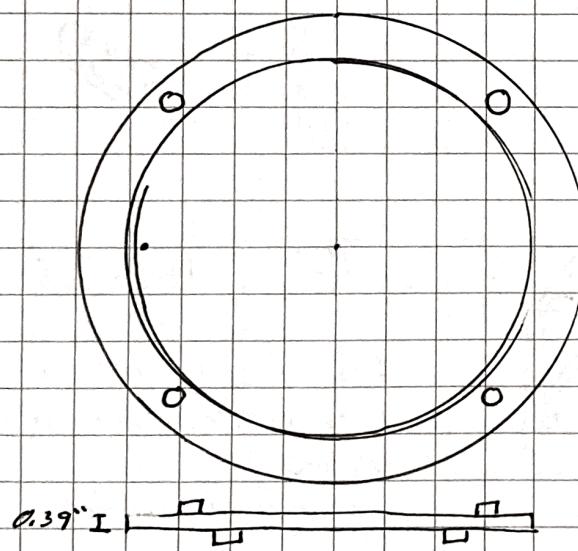
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Dispensing Base:  
 -Front Dispensing



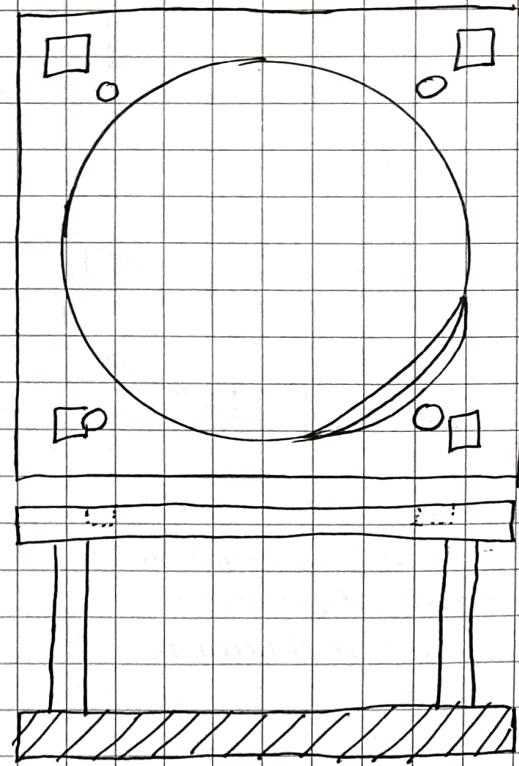
February 26<sup>th</sup>, 2023

Bearing Table:



Feet can fit into indent

Base:



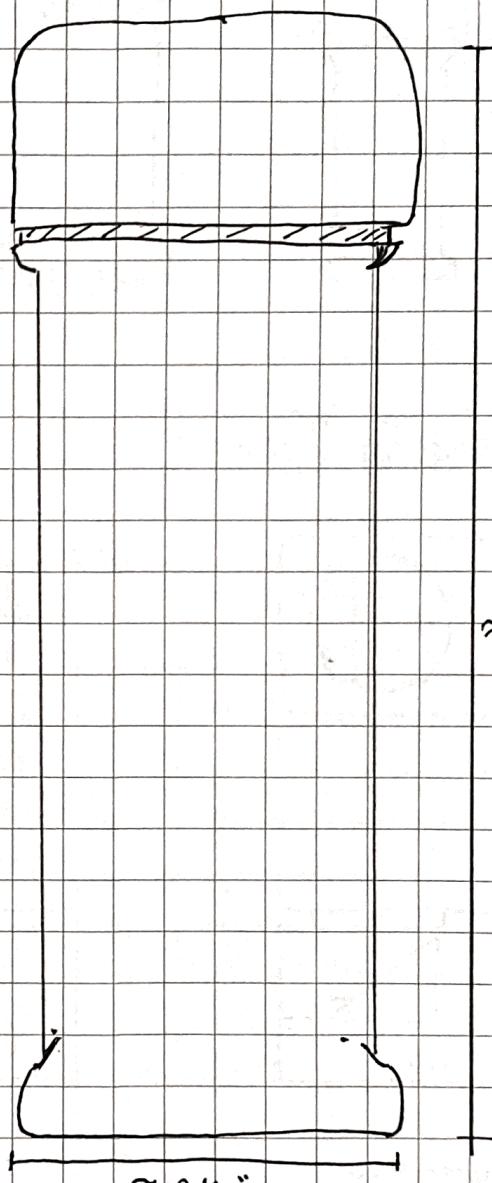
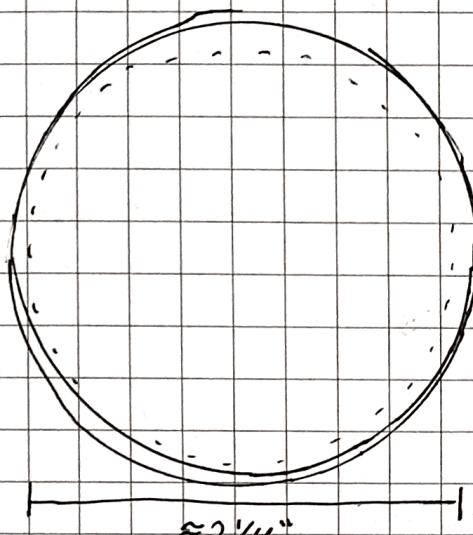
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During weekly meeting, spoke about changing shape of housing to a tube.

- Tube w/ funnel
- Tube w/ base
- Square w/ base

Tube:



Note: This is a "Bolner's FIESTA Brand" garlic powder container. This is drawn to scale and will be a soft reference to the actual tube size.

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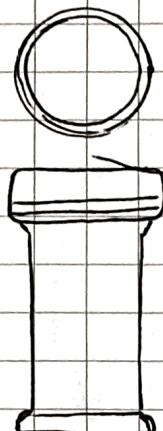
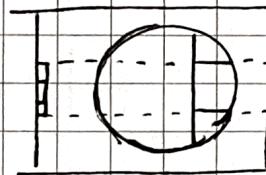
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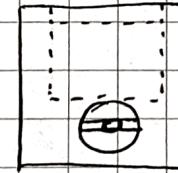
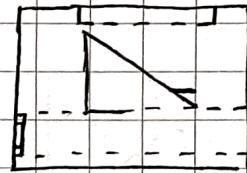
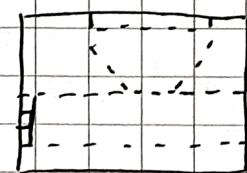
## TITLE

## PROJECT

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Tube @ Square Scale:15<sup>phi</sup> inFunnel:Base For Tube:

Note: Base includes a small decline into the spiral dispenser. This should help focus spices into one spot. May need a way to keep spices away from motors.

Alternative

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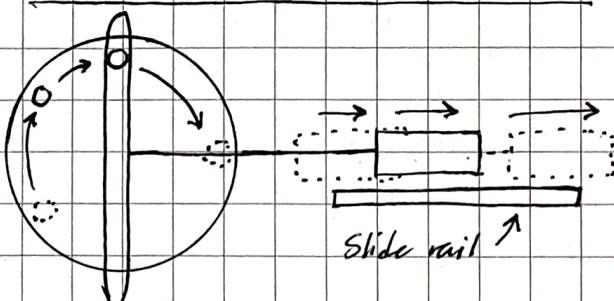
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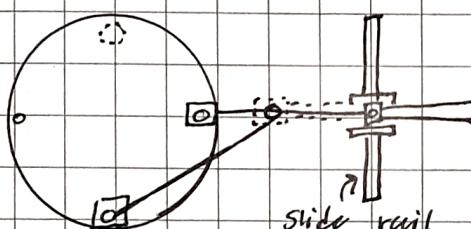
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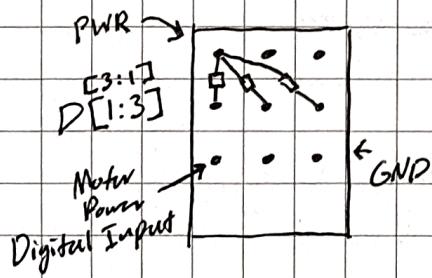
PROPRIETARY INFORMATION

Converting Servo motion to Linear:Scotch Yoke Mechanism:

Note: Diameter of rotating component varies linearly w/ distance of linear motion

Slider Crank Mechanism:

March 8<sup>th</sup>, 2023

New idea for connection:PIM SYSTEM

- Have a small pin board on each container
- Power motor and give feedback for container
- ↪ Expose different pins for different containers

STRIPS For easy coupling

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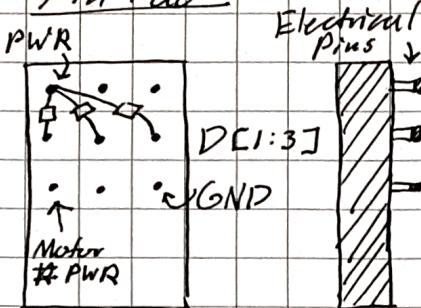
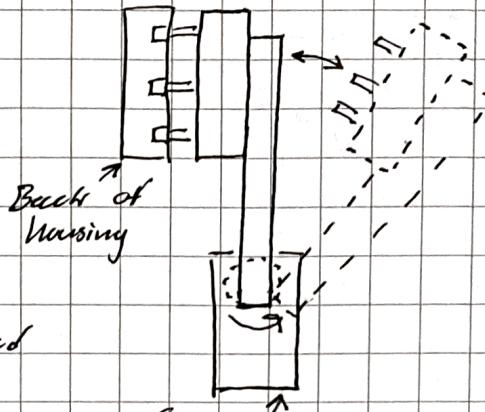
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PROPRIETARY INFORMATION

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March 21st, 2023New Coupling System, Electrical ApproachPin PadCoupling:

- Allows for tracking of which housing is connected based on DC[1:3]
- Pins make for easier connection
- Connected to Arduino/Pi

March 22nd, 2023Critical Design Review PresentationsTeam Super Salad

- Problem background
  - ↳ Self Service industry
  - ↳ Not convenient, not accessible
- Couple of alternative solutions
  - ↳ Changes to main design
  - ↳ Changes to feed system
- Had a couple of scheduling setbacks, but still able to finish before deadline

Team Delta Team Delivery

- Problem Background
  - ↳ Food piracy
- Changes to Design
  - ↳
  - ↳

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PROPRIETARY INFORMATION

CDR Presentations ContinuedTeam Biggest Losers

- Problem Background
  - ↳ Obesity problem in U.S.
  - ↳ Want a way to track activity & food intake
  
- Changes
  - ↳ Voltage Booster for Arduino

Team Music Master

- Problem Background
  - ↳ Barrier to entry in music
  - ↳ There are better ways to practice music / playing instruments
  
- Future Changes
  - ↳ Track performance over time
  - ↳ Note accuracy, Dynamics, Tuning.

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**PROPRIETARY INFORMATION**