

TEAM 17.3

EasyPour

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Why Are We Pouring?

- Independence
- Teacher Benefit
- Vocational Training

Ethics Motto

- **Physically Accessible**
- **Cost Efficient**
- **Safe to Use**



Project Users



Physical Requirements



Limited Physical
Abilities

Easy to Use

Ergonomic
and
Accessible

Contribution

Psychological Requirements

Promotes
independence

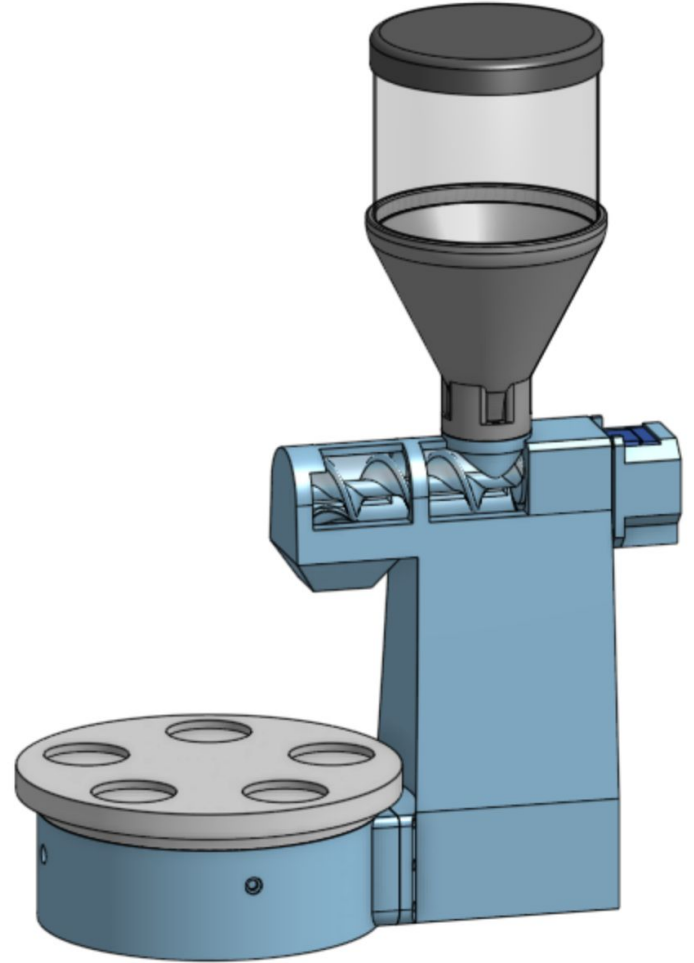
Can become
collaborative

Easy to
comprehend

Easy to teach

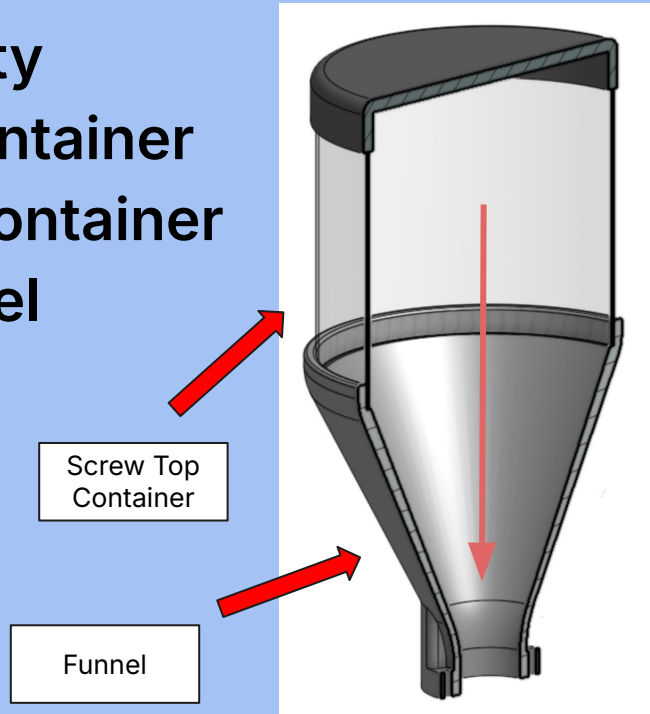


The Design

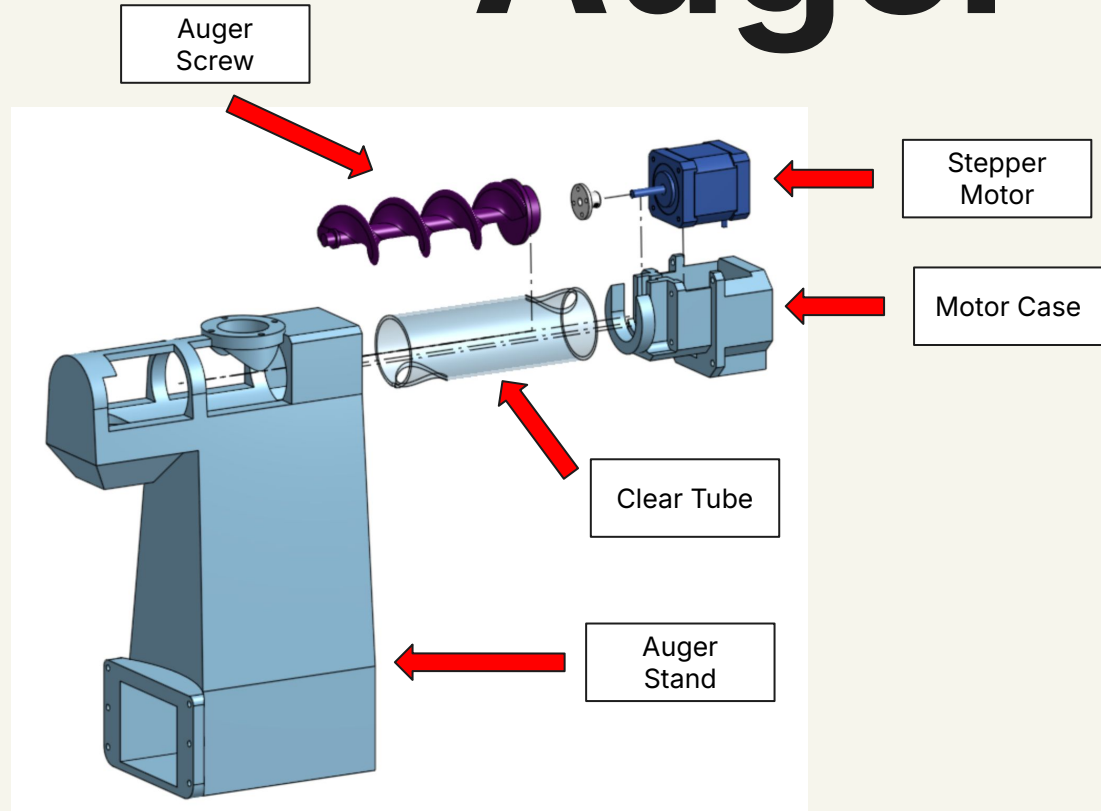
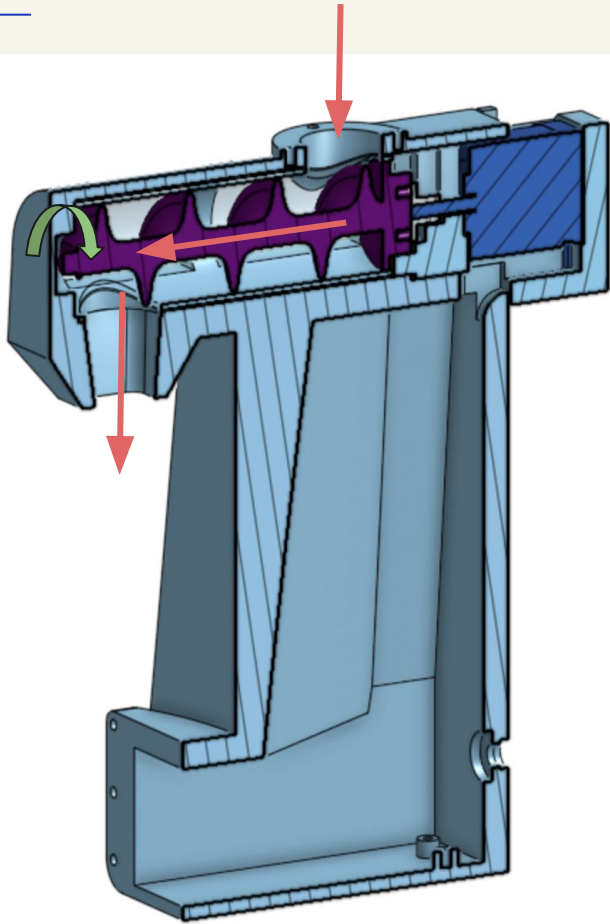


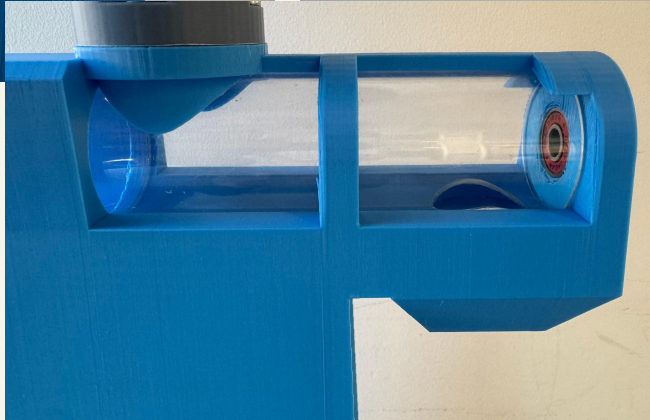
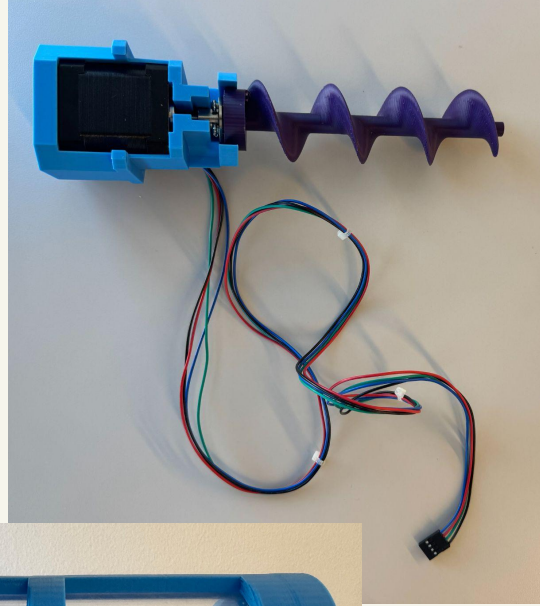
Container

- ½ Gal Capacity
- Screw top Container
- Removable Container
- Smooth Funnel



Auger

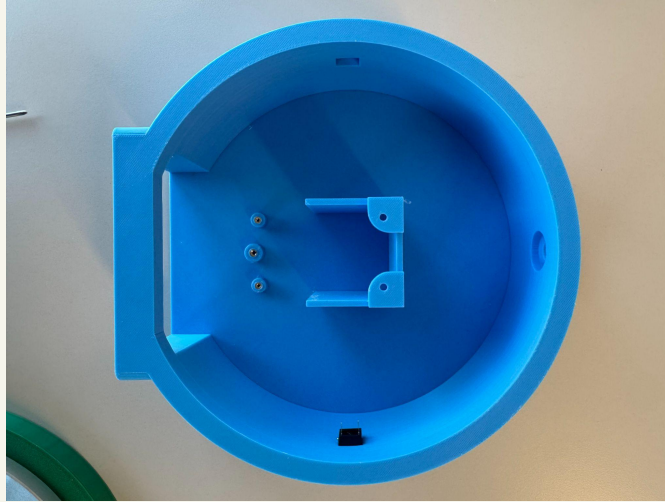




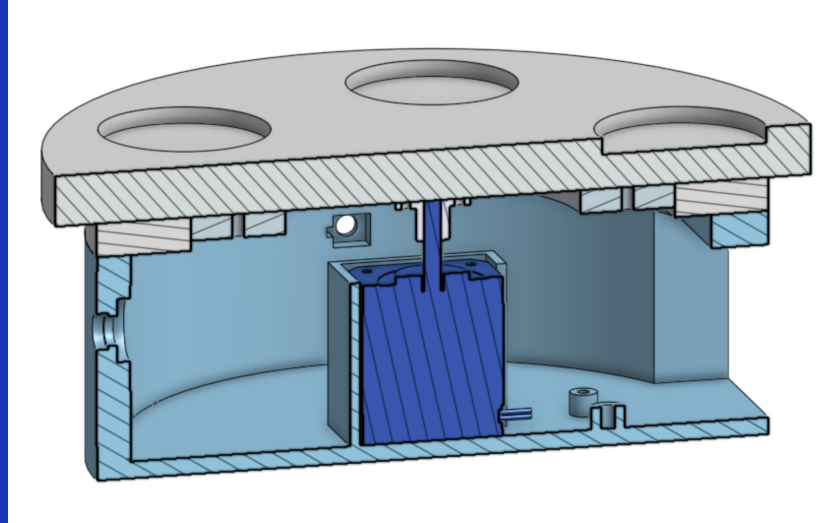
Auger

- **Controlled-dispenser
auger screw**
- **Precise stepper motor**
- **Tall stand with funnel**
- **Removable motor
assembly and tube**
- **Auditory signal**
- **Aesthetic clear tube**

Mount

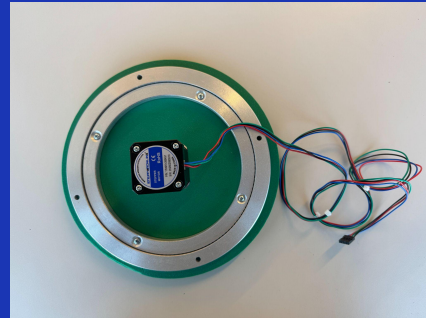
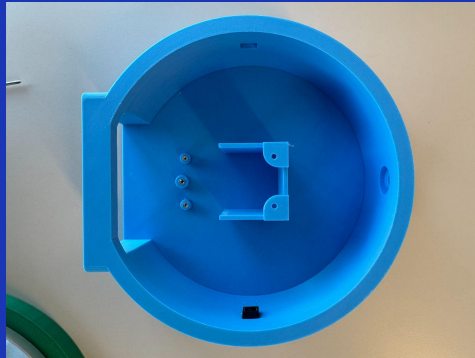


Lazy Susan



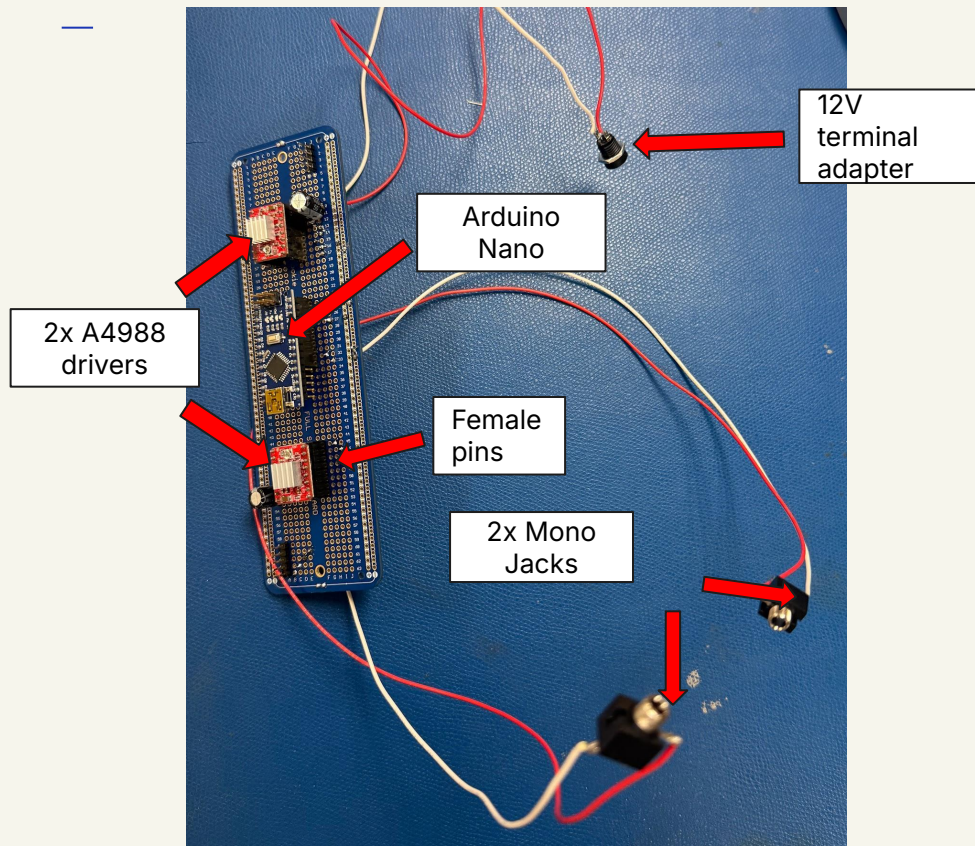
Cross Sectional View of Lazy Susan

Lazy Susan

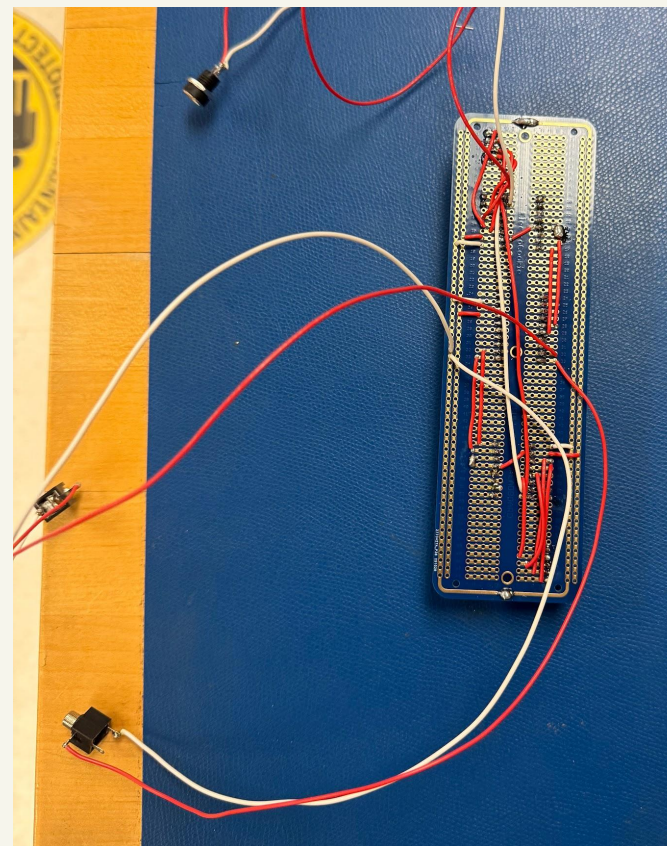


- Bearing for smooth rotation
- Jacks for button/power insertion in walls
- Housing for stepper motor
- Supports for circuitry

Motors & Circuit



Front of Circuit Board



Back of Circuit Board

Design Limitations

- Budget
- Time (One Northwestern Quarter = 10 Weeks)
- Americans with Disabilities Act Design Guidelines
- Scale
- Experience



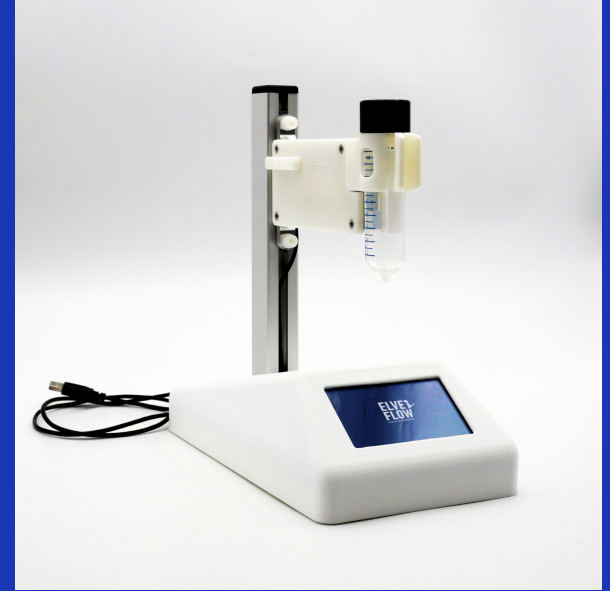
Next Steps, Future Development



Integration of Liquid



Food Safety



Precision Pouring

Next Steps, Future Development



Compatibility with Different Types of Switches

Next Steps, Future Development



Implementation of Multiple Compartments

Thank You!
Questions?