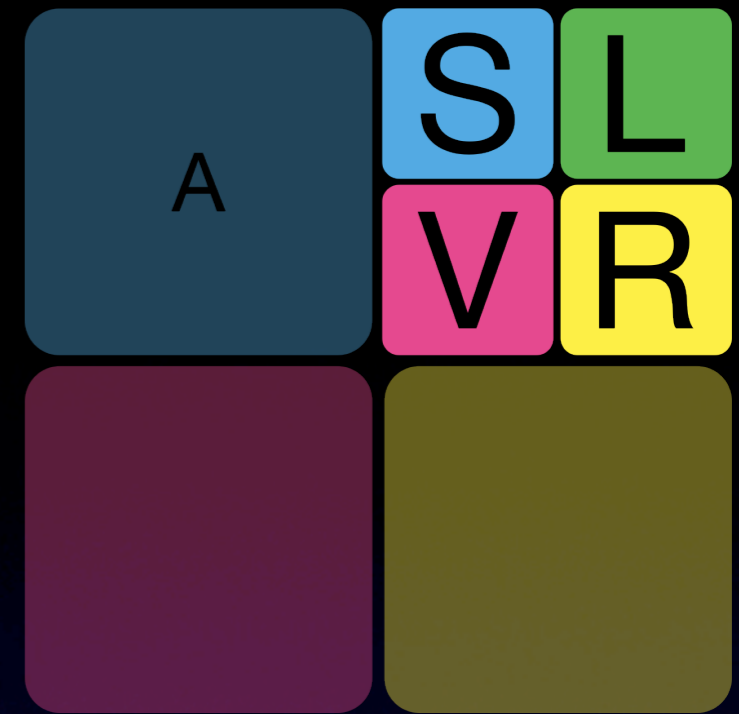


VeggieClean



VeggieClean



Eric Toensmeier
Nuestras Raices

VeggieClean

Customer Contract



Customer Need	Product Attribute	Engineering Spec
Can handle crop yield	Vegetable throughput	$> 100 \text{ ft}^3/\text{hour}$
Extra help not necessary	Operability	1 user
Used water can be dumped at no cost	Daily water use	$< 500 \text{ gal}$
No need for large capital investment	Price	$< \$4000$

VeggieClean

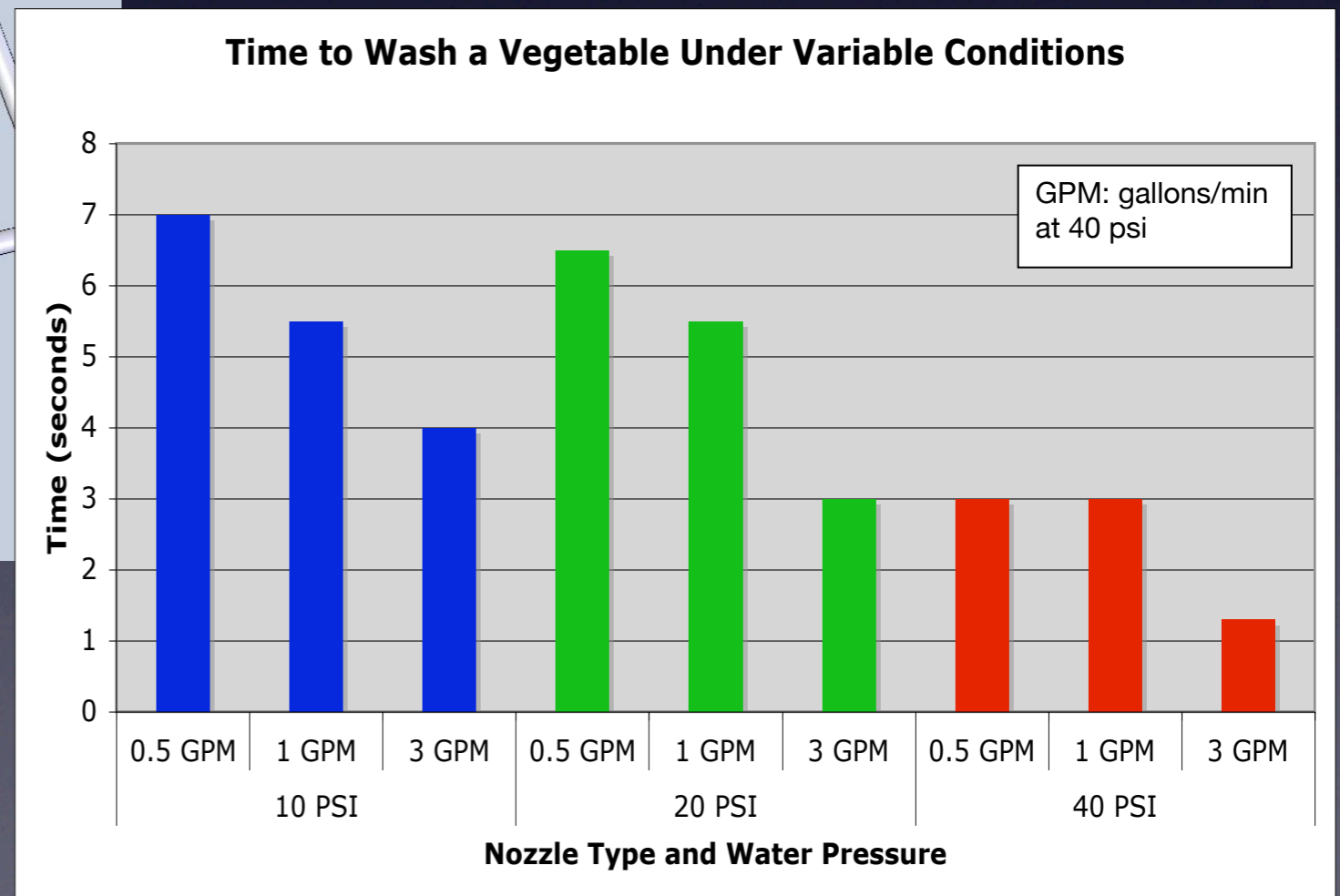
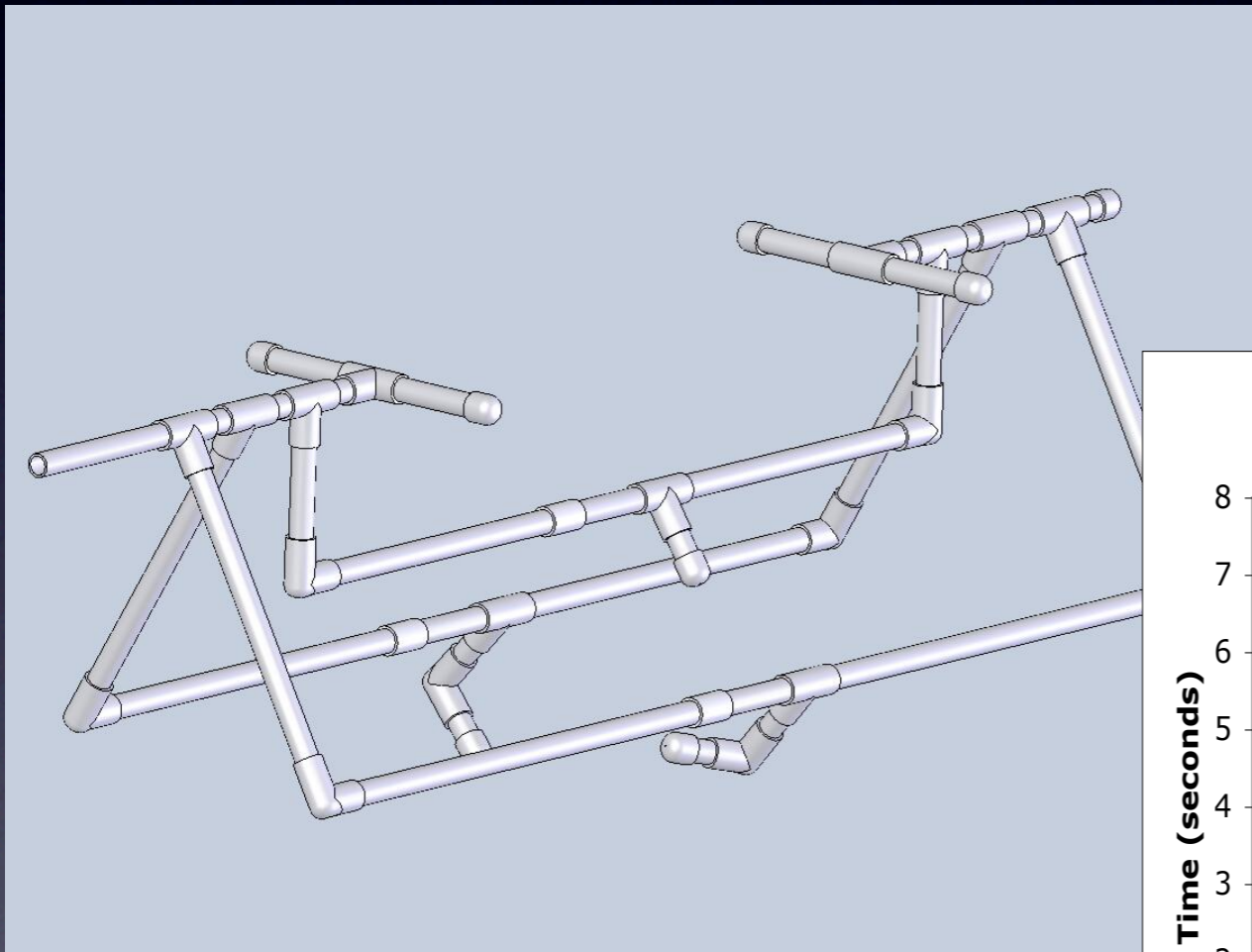
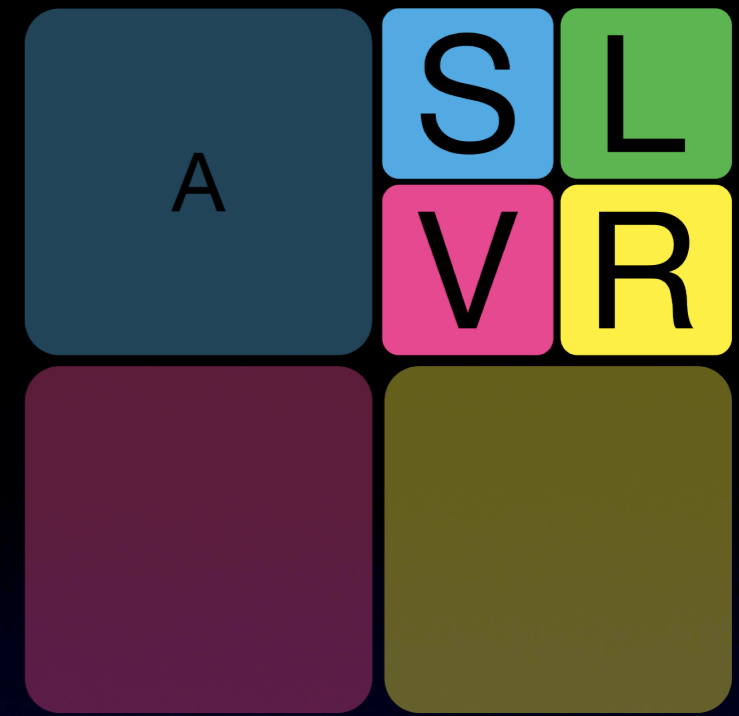
Key Risks

- Poorly washed vegetables
- Damaged vegetables
- Low throughput
- Non-uniform vegetable flow



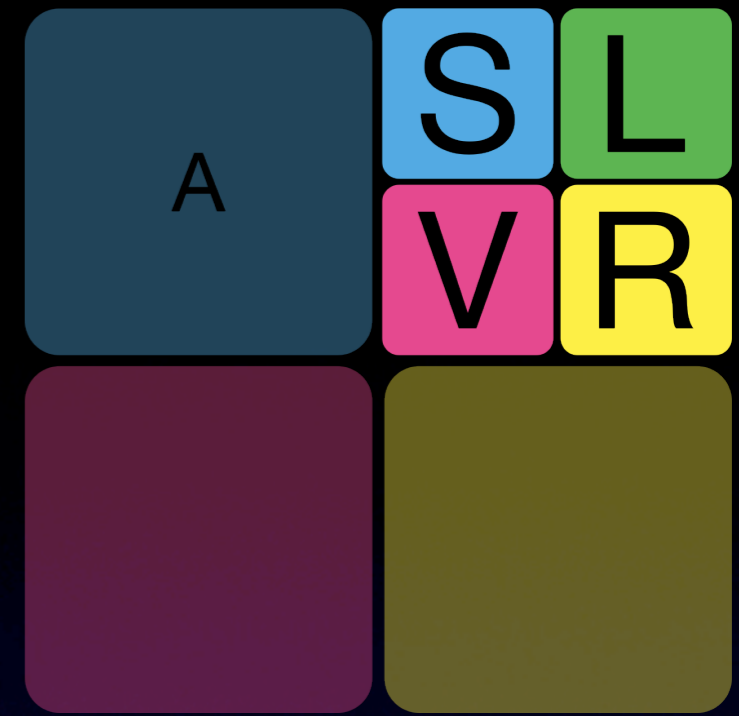
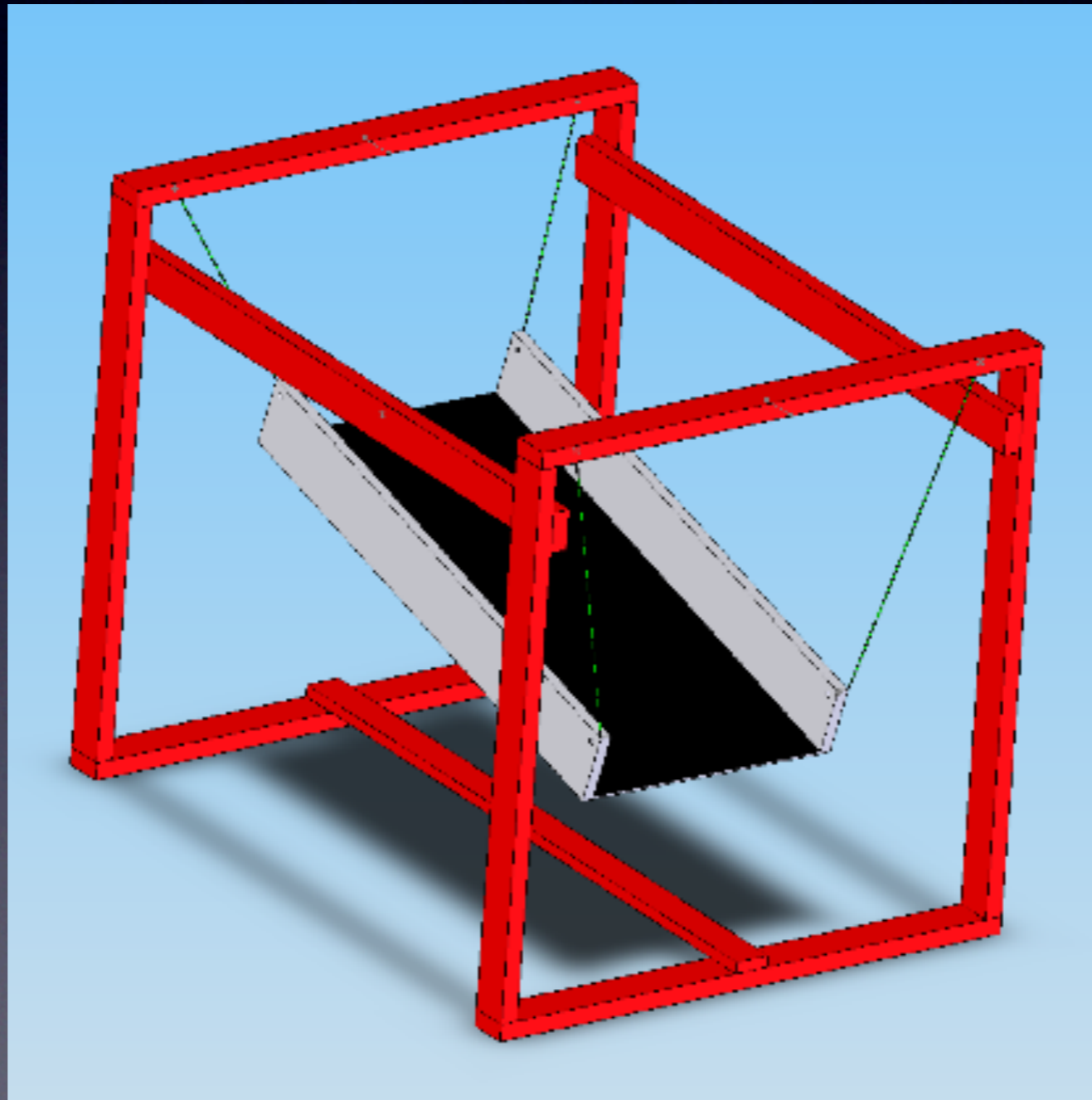
VeggieClean

Concepts: Sprayer



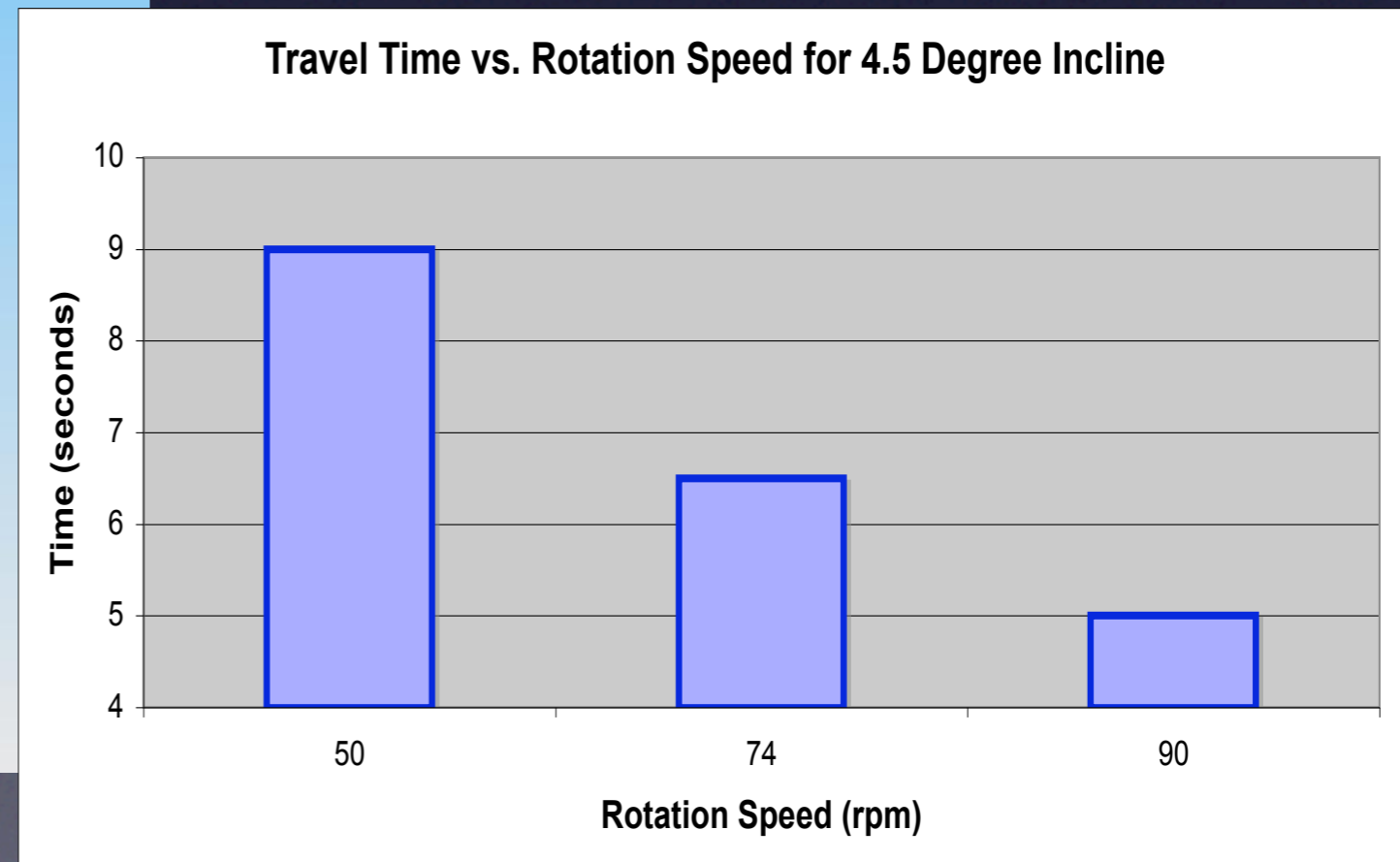
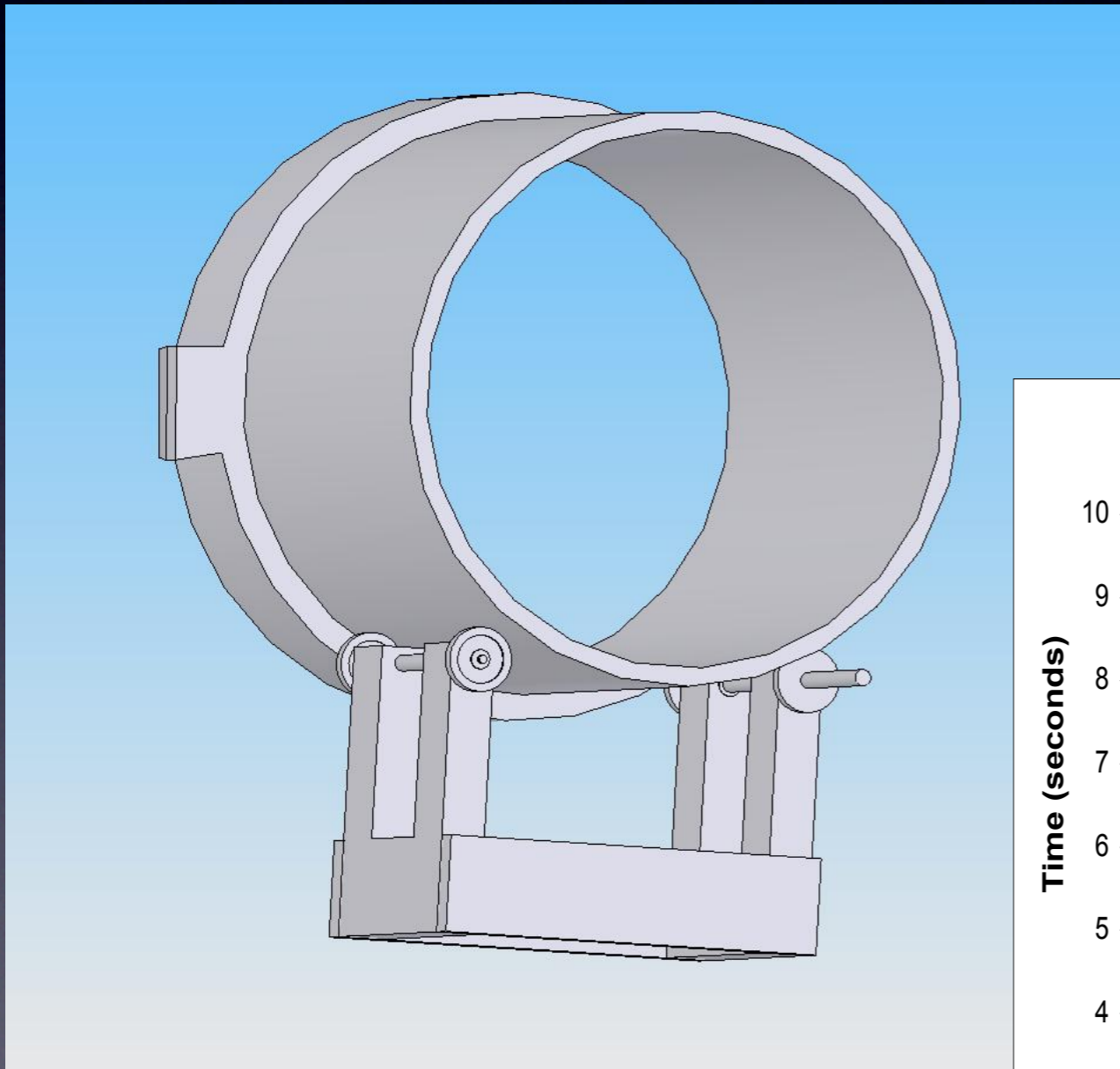
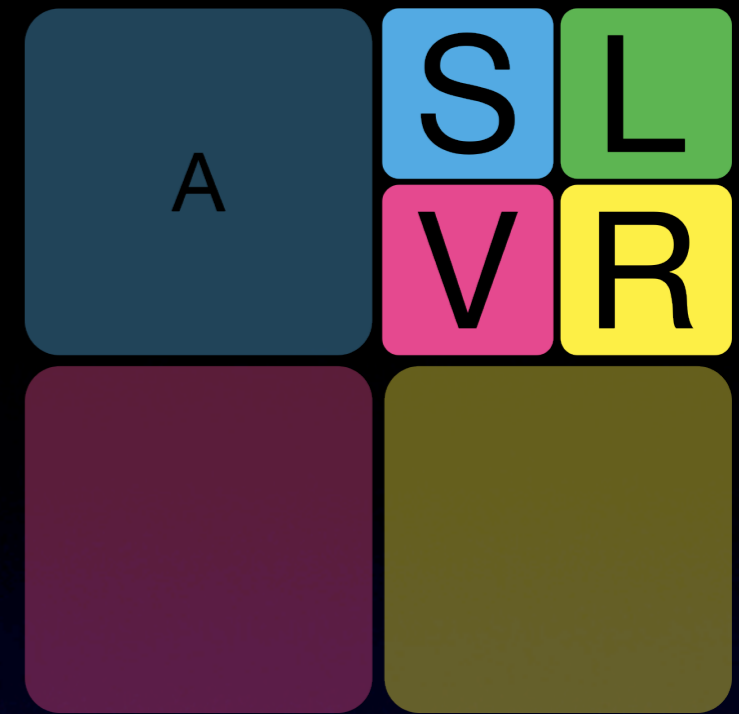
VeggieClean

Concepts: Agitator



VeggieClean

Concepts: Rotating Drum



VeggieClean

Conclusions



- Sprayers are effective at washing
- Variables with Agitator need to be worked out
- Drum is a promising transportation mechanism
- Additional testing needed