

Gatorade Maker

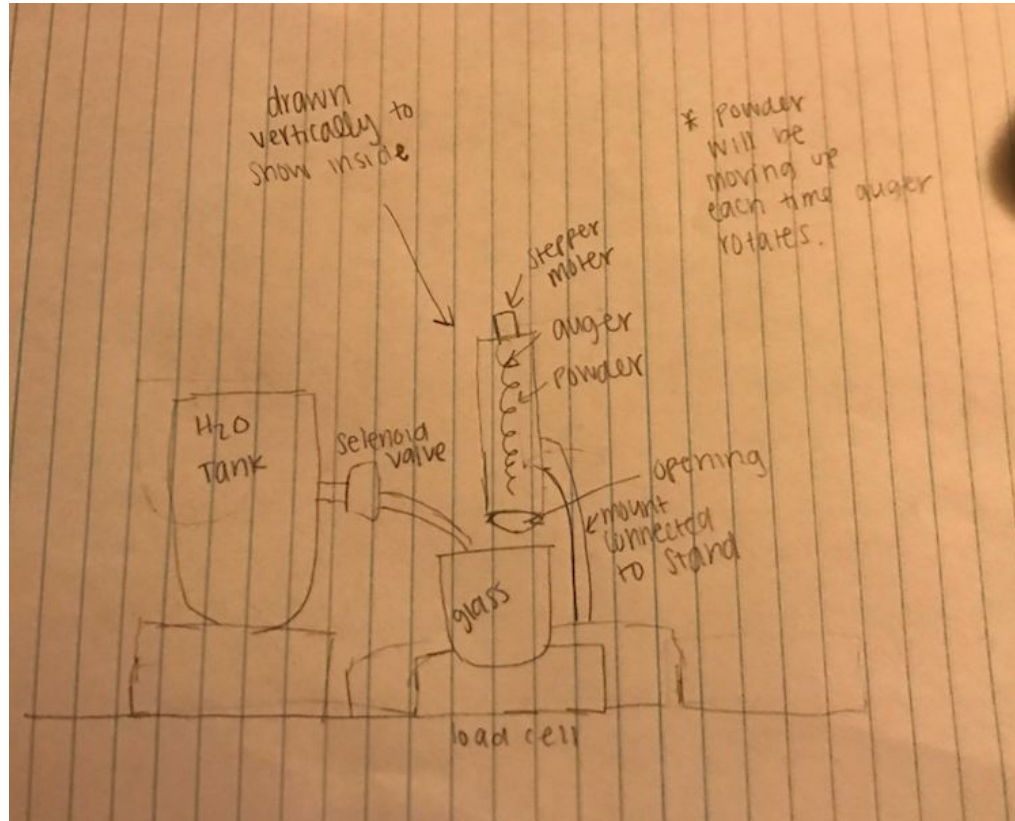
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Our plan

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This project aims at creating a system that pours powder and water to make a Gatorade mix. The user will choose between 3 preset amounts of Gatorade as well as 3 preset powder to liquid ratios. This will allow the user to decide how much and how sweet of gatorade they want. The system will dispense the powder and water in an appropriate amount in the glass. This will allow you to be worry-free about the accuracy of the water and powder you will have in your drink.

What will the system look like?



Budget

- Tubing \$7.99
- Buttons \$4.95
- Stepper Motor \$17.50
- Auger- 3D Print
- Tank for Water \$21
- T Shaped PVC Pipe (Holds Auger) \$2.23
- Arduino Uno Rev- given
- Solenoid Valve \$9.95
- Solderless Bread Board \$6.95
- TIP120 Darlington Transistor \$.95
- 1k Ohm Resistor \$1.00
- Diode \$.15
- Hookup Wires \$6.95
- Load Sensor 5 kg \$9.95
- A4988 Stepper Driver \$1.88
- 12V 2A Adapter \$4.29

