

Product Presentation: Portable Water Filter and Dispenser

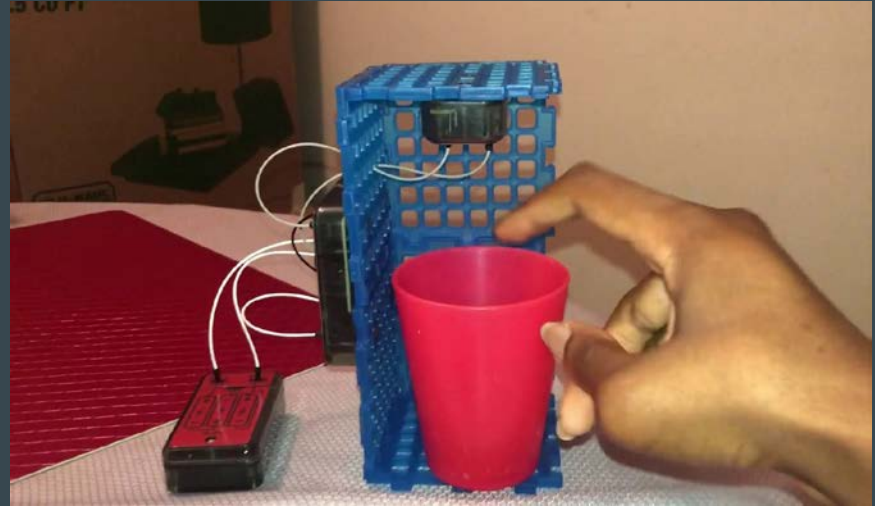
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Designed By: Ifunanya

The Beginning

- Originally wanted to improve my home water dispenser
- However, I wanted a product that would benefit society
- An improved system for filtered water would better living standards for many minority communities without clean water



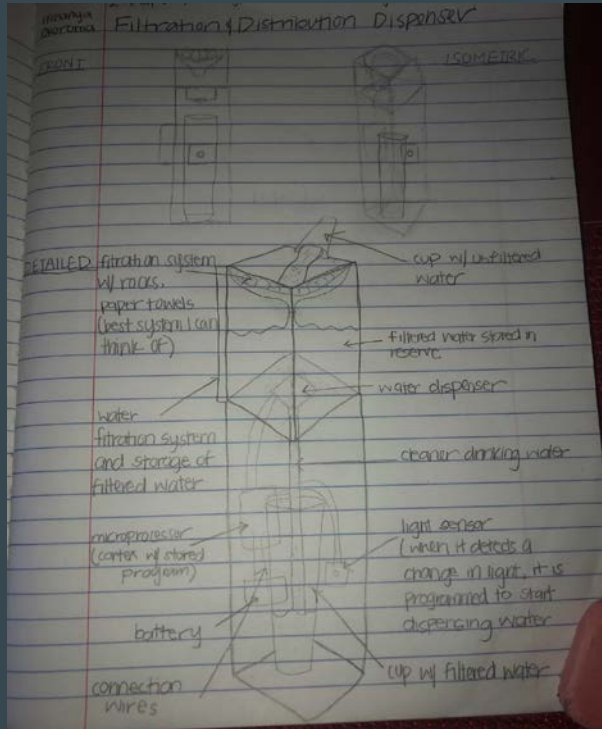
First Idea Video: 07/01/2020

First Stages

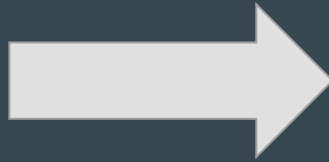
07/04/2020

First prototype within three days!

07/07/2020

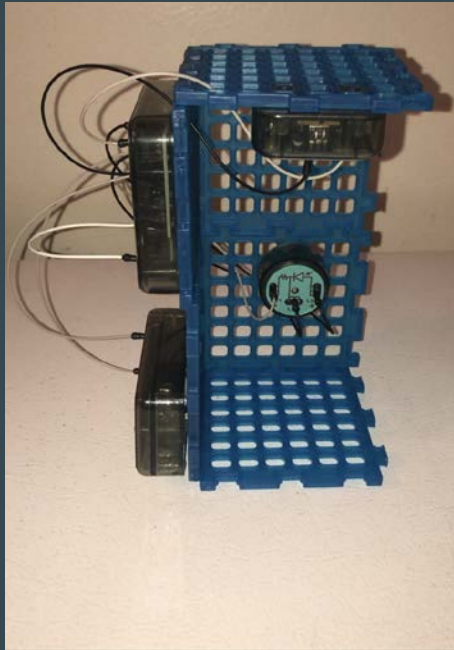


- Manufactured from plastic grids, cardboard, and hot glue

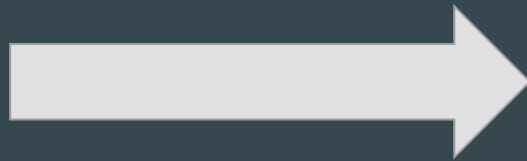


Electrical Changes

07/07/2020

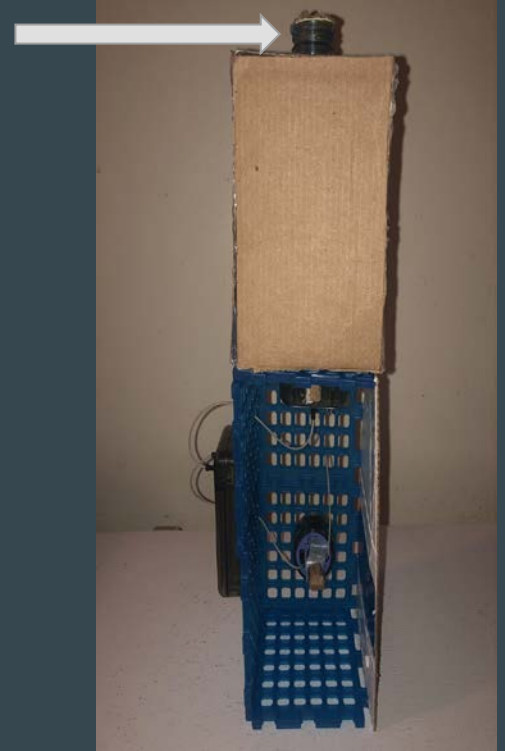


Changed original idea of using a light sensor to a push button, making the product more useful in different situations.



07/09/2020

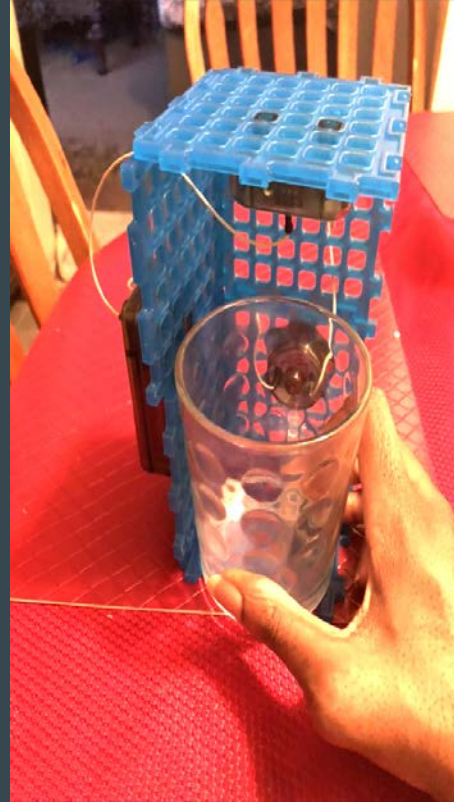
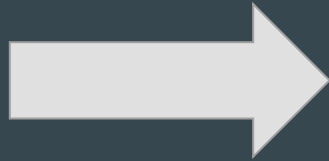
Makeshift Filter



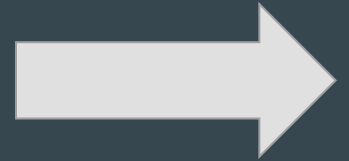
The Sensor Switch



Light changes were not sensed in darker lighting. The circuit was not able to run, which would be inconvenient if you needed water dispensed in the dark.



It was switched to a push button, making it better to dispense water in any light. However, this button was too short for my cup to be able to push it. I needed to make more reforms.



Successful Addition



A cardboard piece was constructed and taped to the push button. This would serve as an effective extension to run the circuit when pushing the button.



Ways to Improve



Thermostat

+



Solar Panel

=



Completed First Prototype

Why address this issue?



Potential User Stories Based On The Flint, MI Water Crisis (07/18/20)

“As a working class and low income provider, I want to have free/low cost access to clean water for my family, a basic human right, so that I can save more money to tend to my family’s other necessities.”



“As a young environmentalist, I want to have access to clean water without using plastic, so that I can do my part to stop polluting the planet further.”

Why invest in this product?



1. Widespread opportunity to distribute clean water to more households in need
1. Can change the temperature of the water for a better water drinking experience
1. Creating more sustainable ways to drink clean water (less plastic water bottle use and more renewable energy)

Thank You!