

Engineering Design process

Define the problem

Brainstorm

Develop a solution

Prototype the solution

Evaluate the solution

team members















PLANTS

Most Americans kill 7+ plants in their lifetime

Americans kill 50% of their household plants

50%

66%

Over 66% of Americans have killed their household plant.



THE PROTOTYPE











- When "orange" pin is moved different settings are selected
- Settings are determined by how long the hatch is opened for (1, 5, or 10 sec)

ESTIMATED COSTS

BLACK 3D PRINTING FILAMENT - \$18.99/1,082FT ARDUINO STARTER PACKAGE (INCLUDING WIRES, BUTTONS, ETC.) -\$10.99

EACH FILAMENT ROLL MAKES 515 PRODUCTS

MAKING EACH PRODUCT COST (AROUND) - \$11.04

(PRODUCTION AND LABOR NOT INCLUDED)



WHY CHOOSE OUR PRODUCT?

Aesthetic

Our product is less clunky and is much cuter than existing designs.

Affordable

Our product is more affordable than others you may find.

Smooth water flow

Our product has a smooth water flow unlike others.

Set time schedule

Our product drains at a set time, while others may drain too quickly.

Easy to clean

Unlike others, our product is easy to clean and refill.

Good quality

Our product is very durable, but affordable, unlike others. IMPROVEMENTS If we had more time, we would've liked to make our product buttons and settings more easily accessible and more organized.

THANK YOU.

We hope you consider o design prototype, "Plant Da Any questions?

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