DESIGN&PITCH
CHALLENGE

FIX IT: DESIGN FOR COMMUNITY IMPACT TECHNICAL BRIEF

Now that you have analyzed a problem, proposed and refined a solution, and developed a pitch for your idea, you will create a technical brief describing your product and the process you used to find a solution.

PART 1. Briefly describe your solution and how it solves the problem or challenge you identified.

PART 2. Describe the mathematics, science, and engineering you researched to design your product. Include links to websites or other resources you used.

PART 3. Describe the decisions you made to choose your design and the challenges you had to overcome.

PART 4. How did developing your Key Business Proposition and related Business Models Types affect your process?

PART 5. Your final solution probably looked different from your original idea. Describe the process for how you developed your idea from start to finish.

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PART 6. How well do you think your solution will work under real-world conditions?

Just a little	Somewhat	Fairly Well	Almost Completely

Explain your reasoning.

PART 7. Fully describe your Fix it: Design for Community Impact solution based on the questions below.

1. What community are you working with?
    a. Describe the community and why it is important to you.
    b. Describe the problem facing the community.
2. Why does the problem need to be solved?
    a. Describe the problem and why it matters.
    b. Describe how big the problem is. How many people does it impact? How does it impact them? How frequently does it impact them?
    c. Describe how people have tried to solve the problem in the past and why their solutions were not successful.
3. What are the specifications for your product?
    a. Show a sketch of your product with all dimensions labeled with appropriate units.
    b. List the materials that will be used in your product.
    c. Describe and justify with calculations how much of each material will be used in your product.
4. How will your product be shipped?
    a. Show a sketch of your shipping container with all dimensions labeled with appropriate units.
    b. Explain how you have used sustainable principles in your packaging design and how your design will protect your product during delivery.
    c. List the materials that will be used in the shipping container for your product.
    d. Describe and justify with calculations the surface area of the shipping container for your product.