

Project Stubber

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Product Brochure

Product Goals

Our goal is to make a product that can prevent people from stubbing their toes. A successful product would need to be cheap, lightweight, reusable, and it must provide protection against any surface or object.



What We Made

We have created a sock insert by compressing foam, then surrounding it in duct tape, and attaching a strip of velcro to the back so it can attach to any sock. The final product will be $\frac{1}{3}$ the size you see in the image and held together with fabric instead of duct tape.

How To Use It

To insert the product, place the product inside the sock by attaching the side with velcro to the area your toes would be. Once inserted, it can be worn and washed without being removed or replaced.



Our Data

To ensure safety in our product, using a pendulum, we measured the force being applied to the toe with the prototype. We compared the results to our control experiment which is done with no protection. After testing, the prototype had an 87.7% decrease in force compared to the control group; this means only 12.3% of the force you would normally experience is actually impacting you. While doing human testing we were able to walk around comfortably, and when hitting our foot into a flat wall, wall corner, and chair, we experience no pain.