

A red square logo with a white border. The text "invention studio" is centered inside the square in a white, lowercase, sans-serif font.

invention
studio



Invention Studio

*is where high school students engineer
impactful products for the real world.*



ENGINEERING



DESIGN
THINKING



WORK ON A
TEAM



GAIN
DESIGN/ENG
SKILLS



LAUNCH
AN IDEA

Involvement Options

1. JOIN A NEW TEAM

disability / accessibility?

2. JOIN AN EXISTING TEAM

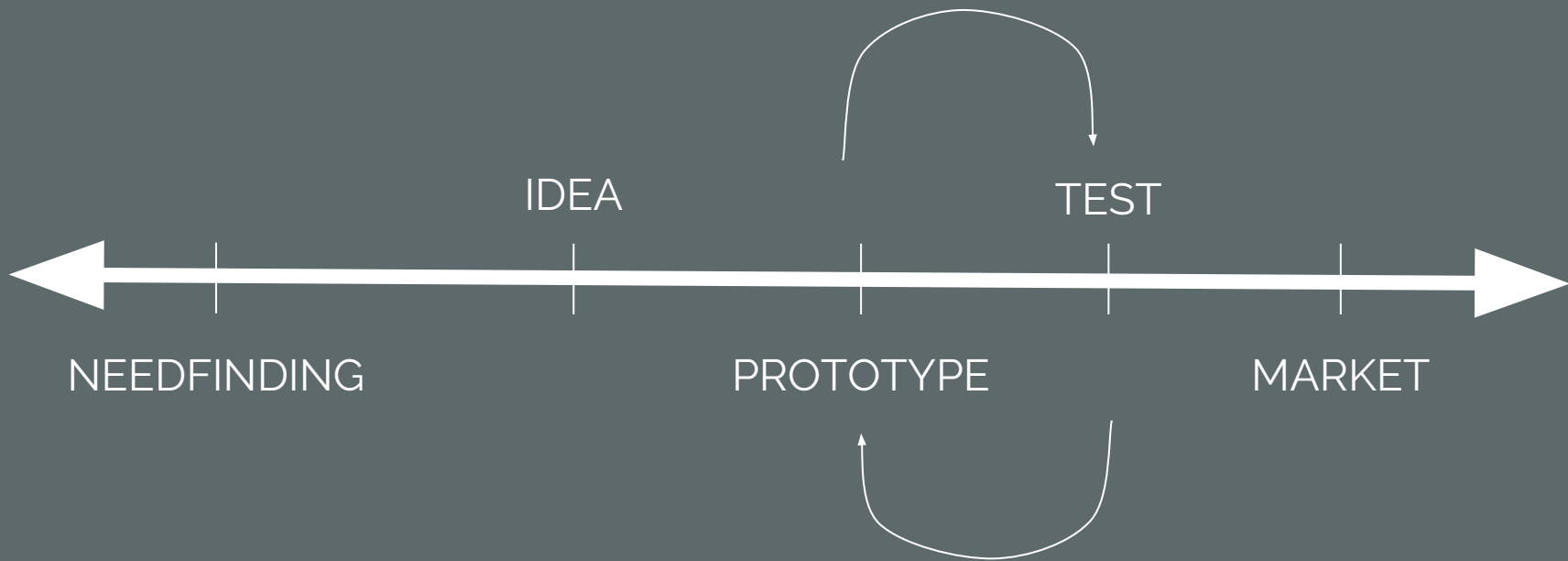
social anxiety

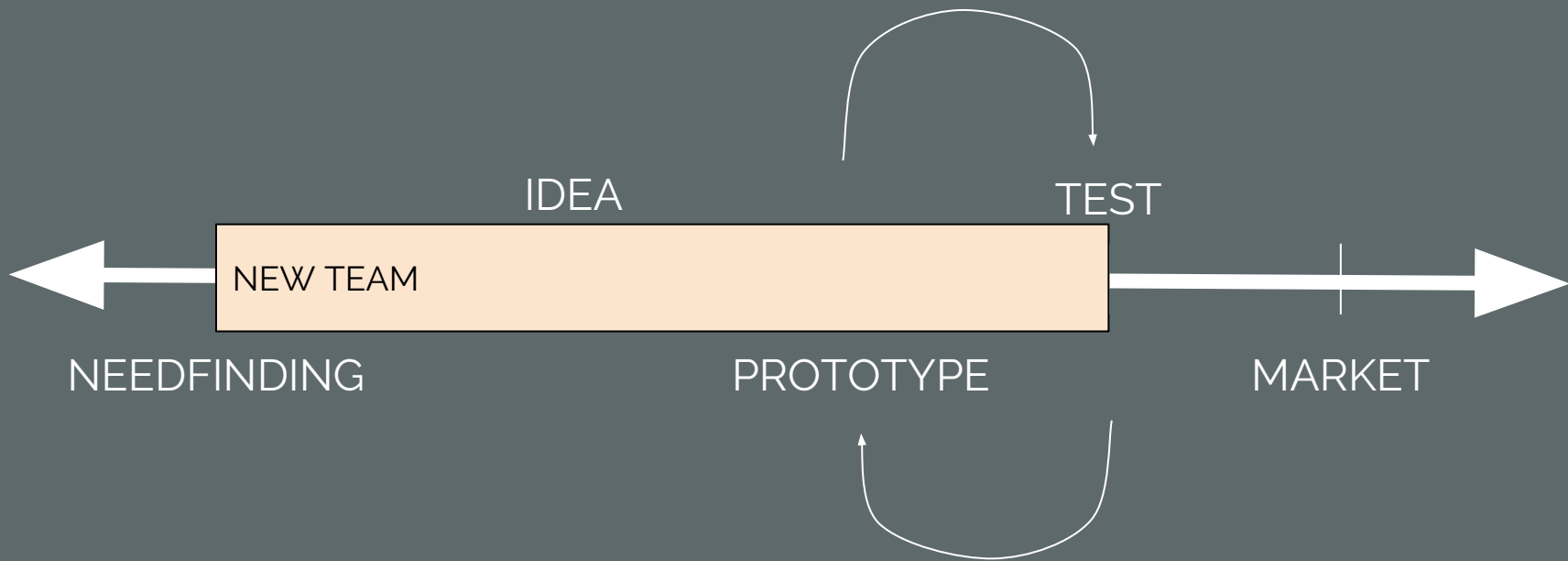
homelessness

animal prosthetics

drinking safety

3. STUDIO MANAGEMENT





NEW TEAM

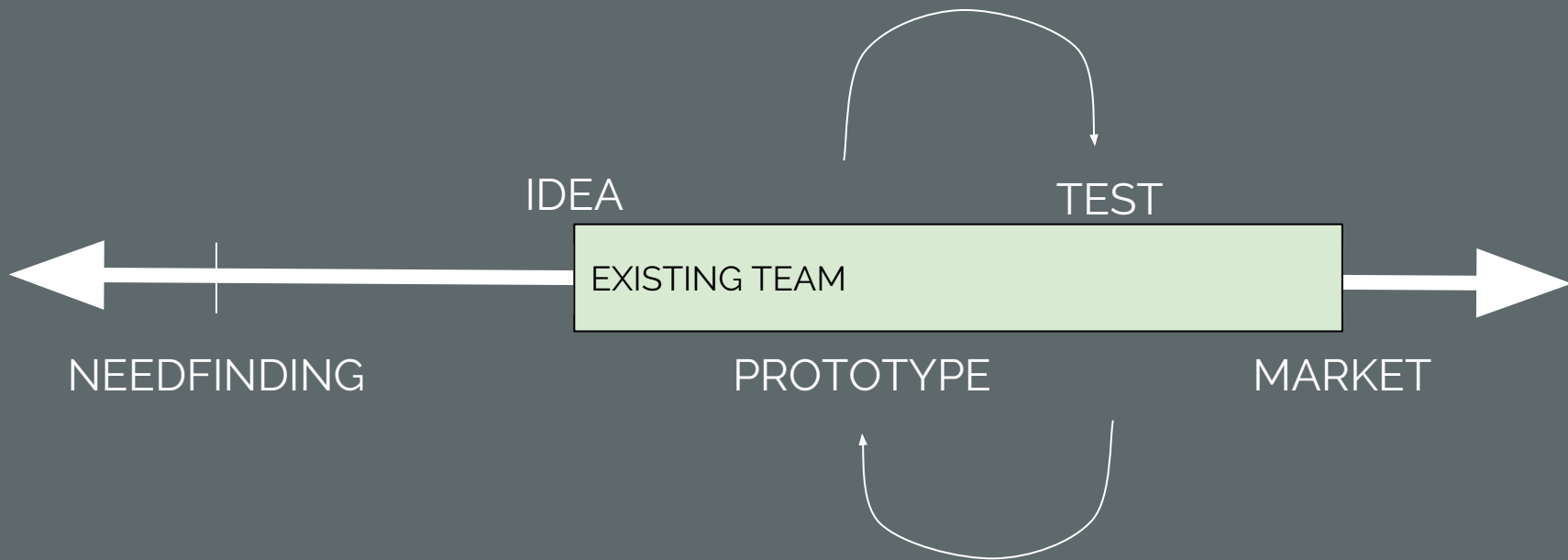


JOIN IF...

You want to design think an idea from scratch

You want to know how to find solutions to seemingly impossible problems

You are excited by working on something undefined



EXISTING TEAM



JOIN IF...

You want to jump right into
engineering

You already have an engineering skill
in mind that you want to grow

You want to see the product you work
on being used by people

STUDIO MANAGEMENT



JOIN IF...

You want to help grow a community of high school inventors

You want to learn skills in corporate relations, group leadership, etc.

You are excited by Invention Studio but don't have as much time

Member Expectations

Time commitment:

3 - 6 hours/week
some weekends

**End-of-year pitch
showcase**

Partnerships

Kent Place School // NJ

Companies // SF

etc...

Summer Opportunities

Needfinding field trips

Possible I-Lab workshops

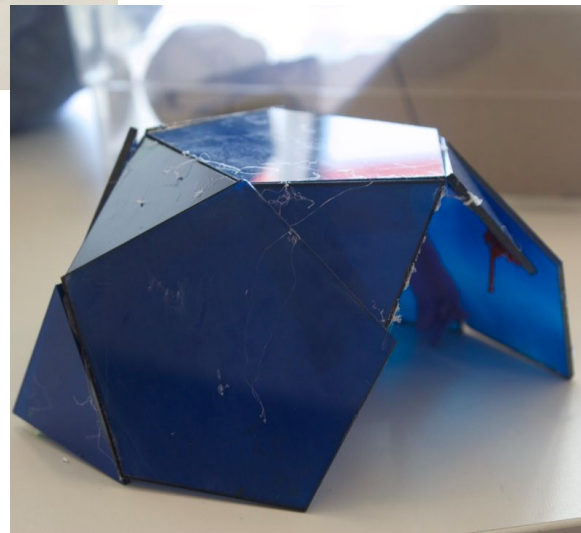
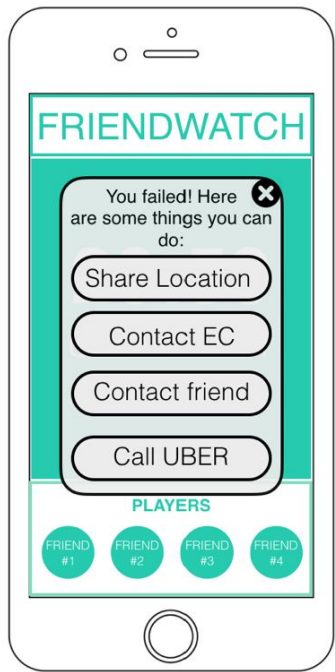
Existing Project Pitch

alcohol safety

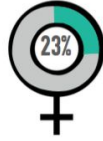
animal prosthetics

social anxiety

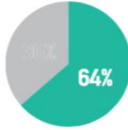
homelessness



FRIENDWATCH | GITIKA PAHWA



of female college students report being sexually assaulted.



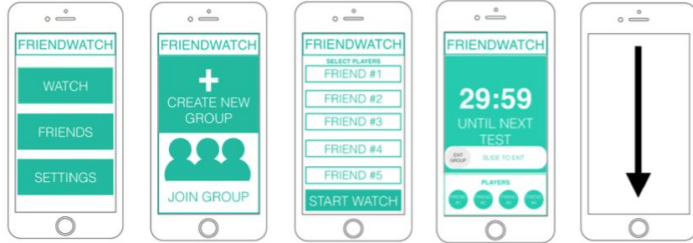
of these same students report having just drunk prior to their assault.



3.5%
OR
700,000

number of college students who suffer from injuries caused by someone under the influence of alcohol annually.

FRIENDWATCH is an app for college students that makes safety social in situations involving alcohol.



OPEN THE APP. **CREATE** A GROUP. **SELECT** YOUR FRIENDS. **SET** THE TIMER. **TAKE** THE TEST.

Friend #2 and Friend #4 failed! Here are some things you can do:

Contact Friend #2

Contact Friend #4

You failed! Here are some things you can do:

Share Location

Contact EC

Contact friend

Call UBER

WATCH OUT FOR YOUR FRIENDS.



THEY'LL DO THE SAME FOR YOU.

TEAM NEEDS...

App development

Graphic Design

Marketing/Business

PAWS-THETICS

My Issue

Shelter animals have a hard time getting adopted as it is, but **imagine** how it is for those with missing limbs.



One in every 5 shelter dogs with a missing limb is Euthanized every year

- Durable
- Light
- Easily Makable
- Low Cost
- Replaceable



NOW, Imagine if there was a prosthetic for these animals.

My User

This is Hector. Due to a Car accident his leg needed to be amputated, and he is in need of a new one!

NEEDS

- Bamboo materials that are lightweight and durable
- 3D printed brace that holds together the rest of the leg
- Correct measurements

See my table for prototypes and my final design

TEAM NEEDS...

CAD/Product design

Electronics?

Web development

Marketing/Business

PENTA-POD

AUDREY KOST

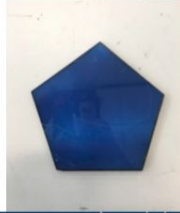


The Problem: Homeless Living Environments

69,000 Homeless in SF

1/3 in emergency housing are families

Penta-Pod is a **modular shelter system** designed for homelessness with **transportation, resiliency, and flexibility** in mind.



\$200

construction per shelter

For additional information, email

audkost@nuevaschool.org

TEAM NEEDS...

CAD/Product design


Web development

Marketing/Business




Good Vibes

social anxiety stress ball



Good Vibes is a stress ball that vibrates to a pulse-like rhythm designed to help calm people with social anxiety. Using an Arduino, a vibration motor, and a stress ball, Good Vibes is coded to vibrate at intervals simulating a heartbeat, making users more comfortable by providing a steady, reliable pattern. Although its designed for social anxiety, Good Vibes can be used in many de-stressing situations as its simple design lends itself to versatility.



TEAM NEEDS...

Electronics

Marketing/Business

[http://tinyurl.com/
inventionstudio](http://tinyurl.com/inventionstudio)