



Background

STEM summer programs boosted the likelihood of students graduating college by up to **33%**

The Houston Association for Space and Science Education (HASSE) is looking to have **more established relationships** with local high schools, given difficulty **connecting** with **high school students**

Community Partner



James CY L.
Co-founder of HASSE

Key Insights

Sent out a questionnaire to 12 schools asking to learn more information about STEM programming in school and out of school in the Houston area

- ★ **83%** of students are interested in **after school programs**
- ★ **50%** of students are interested in **summer programs**
- ★ **No real interest** in a **out of school program**

Problem Statement

How can we develop a **personalized STEM curriculum** that caters to individual students' learning styles and preferences, **fostering a deeper passion** for STEM subjects?

Test Journey

Build

- Used **survey feedback** to understand the existing STEM education landscape in Houston
- Brainstormed **problem solving competitions** to host on behalf of HASSE

Test

- Focused on developing a **low-fidelity prototype** of the HASSE Space Sprint event
- Engaged Rice University students to solve and rate their **favorite instant challenges** for the event

Implement

- **Refined** Space Sprint event based on feedback from **prototyping challenges** with our peers
- Handoff the **detailed mock agenda** to the HASSE team

Design Goals

★ Accessibility

★ Personalization

★ Scalability

Measures of Success



One new program at a Houston HS where 20+ students attend



25% increase in students attending HASSE summer program

Final Solution

HASSE Space Sprint is a 2-day competition aimed at High Schoolers interested in Space.



Key Features

- **Accessible event**, with low cost of attendance
- Space themed design challenge to **instill passion** and wonder in contestants.
- **Guest lecturers** such as astronauts, professors, and others in space industry.
- **Build skills** that can later be applied in college.
- **Win prizes** and possible **scholarships** to HASSE Space School

Next Steps

★ Gather **feedback** on our **Sprint challenge questions.**

★ Develop a **small scale program** to test with **Rice students**

★ Adapt **prototype program** to accommodate a **large amount of HS students**