

## Part 1:

### What is the purpose of your website?

I am building a personal portfolio showcasing my design works ranging from architecture to UI/UX design. Through this website, I want to present each project in a visually pleasing way to tell compelling stories.

### What information do you convey with your website?

This portfolio website features one home page, one project page, one “about” page and a page for resume. There are five projects being featured on the project page. Two of them are architecture projects and three of them are UI/UX projects. On the home page and about page, I want to give a good introduction about myself so that viewers can know about my design ability and past experiences.

### How is it interesting and engaging?

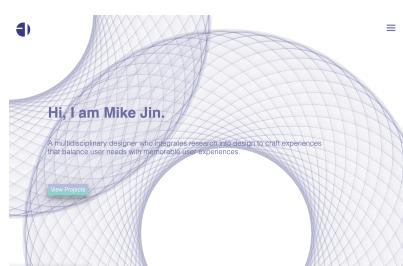
This portfolio features a few interesting features including: a drop down animation for the hamburger menu, animation for transforming and translating the menu button, and an interactive homepage. Using P5 library, I was able to create some dynamic mouse interaction which adds lots of uniqueness to the homepage. These mathematical curves using primarily the formula for hypotrochoids are inspired by Guilloché Patterns. There are also many micro interactions featured in the portfolio such as the drop shadows and hover effect for the gallery view of each project in the “project” page. Lastly, I managed to make the website follow a consistent, minimalistic and aesthetically intriguing layout making visitors focus more on the contents.

### Who is the target audience?

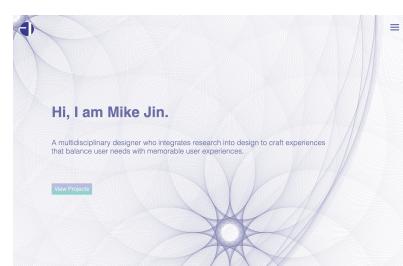
The target audiences for this portfolio are hiring team and people who are interested to know more about my design projects.

## Part 2:

1. Once you are at the homepage, the dynamic hypotrochoids will transform their form depending on the position of the mouse. The general logic behind this design is that once your cursor moves to the hamburger button, all these organic geometries will disappear and the geometry will become most intriguing and complex once you are at the lower part of the page.



When cursor is on the “view projects”



when cursor is at bottom center



when cursor is at the “hamburger button”

2. There are a number of hover effects. Once the cursor lands on the clickable buttons there will be drop shadows.
3. The hamburger menu button on the top right will guide you to the resume page, about page, and project pages. You can access the project detail pages of the five projects from the project page. The hamburger menu on each page is clickable so that you can access different pages easily.

### **Part 3:**

- I. CSS Animation
  - II. I used CSS animations to build an interactive hamburger menu for my portfolio. I decided to use it because CSS animation makes it possible to animate transitions from one style configuration to another. Together with Javascript, I can make the menu navigation an interactive element.
  - III. Once you click on the hamburger button, the menu will slide down, and meanwhile, the hamburger button will change its form to an “X” button making users aware that they can close it by clicking on it.
  - IV. This adds interactivity to the portfolio making it engaging and fun to use.
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- I. P5 JS library
  - II. Using the P5 library, I was able to make an interactive homepage. I used this library because it is primarily used for creative coding which offers me an opportunity to make some interesting and dynamic elements on websites.
  - III. Users can play around with the position of the mouse to generate intriguing mathematical geometries. Once the cursor moves to the hamburger button, all these organic geometries will disappear and the geometry will become most intriguing and complex once you are at the lower part of the page.
  - IV. This adds interactivity to the portfolio making it engaging and fun to use.

### **Part 4:**

The major change is the homepage. While working on this project, I got inspired by some parametric computational design projects that I have done before and therefore I decided to add some interactive parametric design elements to the homepage. A minor change is the addition of hover effects to make the user experience more fun and dynamic.

### **Part 5:**

Learning how to implement the P5 library and CSS animation took quite a long time, but ultimately it has been a very rewarding experience. I struggled the most with implementing the javascript code for the CSS animation to make the overlay works. Another challenge I encountered was making the parametric geometry the way I desired. Through trial and error, I have ultimately managed to get the hypotrochoids geometry to work for the homepage.