

Github Page Link:

<https://thelittlefloor.github.io/PUI-Aaron-Lee/>

https://thelittlefloor.github.io/PUI-Aaron-Lee/assignment_8/index.html

Part 1

My website is a portfolio website that aims to arouse interest in my previous projects. The target audience are those who wish to gain an understanding of my previous work, be it colleagues, recruiters, or hiring managers. For the purposes of this assignment, I have filled the website with 4 projects and a gallery page. For each project, a short video is shown along with the title and summary of the project. This engages the audience by providing a brief introduction to the project. Videos act better as a call to attention than static elements. Scrolling down, the project and its significance is described with text and images. The gallery page is filled with previous works regarding 3D modeling, Keyshot renderings and woodworking in order to showcase my skills in crafting and hardware prototyping.

I have added a pervasive background animation to the website which denotes swirling lines across the screen, moving at a pace that is just noticeable. This background animation acts as a call to attention and a way to emphasize the foreground images and text. Apart from the utilitarian aspect, it also provides a much needed visual break from the potential monotonous layout that are common with portfolios. Various hover effects are imbedded throughout the website to enhance the pleasure of exploring.

Finally, a contact page is provided, filled with my email information, links to my LinkedIn and Google Scholar pages, and a link to my CV.

Part 2

The landing page is the Works Page

1. Works Page
 - a. Scroll down to see project title cards
 - b. Hover over title cards to see project title
 - c. Click on a title card to navigate to a project page
2. Project Pages (ElaStick, ClearVis, Aero-plane, ActivEarring)
 - a. Title video automatically runs on a loop
 - b. Scroll down to see project details
3. Gallery Page
 - a. Images sink down into place upon loading
 - b. Scroll down to see images
 - c. Resize browser to change the number of columns and image size
4. Contact Page
 - a. Click the link named 'LinkedIn' to open a new tab to my LinkedIn profile
 - b. Click the link named 'Google Scholar' to open a new tab to my Google Scholar profile

- c. Click the link named 'Link' under 'CV' to open a new tab to my CV
5. Nav Bar Overlay (Click on the hamburger icon to open navbar overlay)
 - a. Click 'Works' to go to Works Page
 - b. Click 'Renders' to go to Gallery Page
 - c. Click 'Contact' to go to Contact Page

Part 3

The external tools I used for this project (other than Bootstrap) is the p5.js library.

1. Name: p5.js library
2. I chose to use this library because I have had previous experience with procedurally generated art using Processing, which is a similar java based platform. I have not used the javascript implementation before and wished to try it for myself. I also wanted to add an interesting background animation to my website to make it more visually engaging.
3. I downloaded the complete library files from their official website and added them to the local project folder. I rearranged the script source addresses to better suit the project folder and implemented my animation code in the 'sketch.js' file. I fixed the animation canvas position so that it follows the viewport during scrolling and set the z-index so that it is placed in the backdrop.
4. p5.js is a better tool to use for continuous animations over other tools because it runs its loop function in the backend regardless of user input and interaction. It is also preferable over images and videos because it can achieve the same effect with much less memory usage, and it can potentially randomize its procedural generation for every refresh.

Part 4

My original design featured a different background animation from the one I implemented. It also had the nav bar menu slide in from the right, not the left. The original gallery page had 2 columns of images at max-width, not 3. And finally, the spacing and proportions are not 100% in line with the design shown in HW7.

Part 5

It was my first time trying to incorporate an external library into a project, which meant I had to struggle with script source addresses for a while before I got it right. The fact that I had to make the website responsive also brought challenges since elements would shift and collapse on each other, even in bootstrap this issue was not 100% avoidable. Finally, creating the content for the portfolio, including sourcing images and video were almost as time consuming as the actual coding of the website.