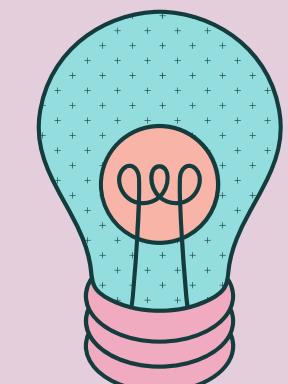


Chance Onyiorah

Throughout my time at the University of Florida, I was able to learn new skills both inside and outside the field of computer science. This portfolio showcases creative works from the last three years that I am especially proud of being a part of including work in web development, computer modeling, rapid prototyping, video editing and more!



Senior at University of Florida
Major: Computer Science
Minor: Engineering Innovation

CASTLE FINAL PROJECT

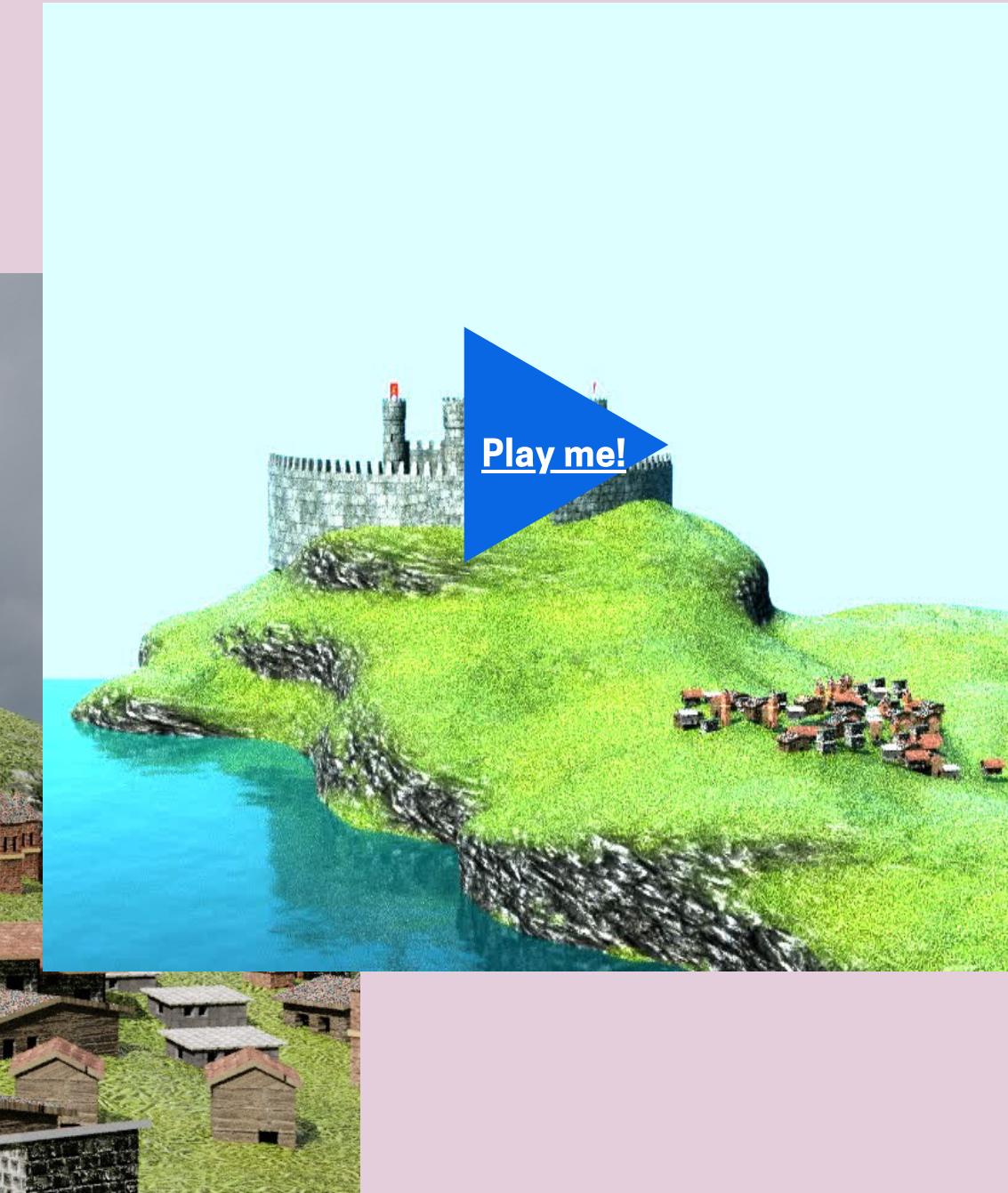


Date: Fall 2021

Class: Computer-Aided Modeling

Description: For our final partner project, we had to model a medieval setting featuring an indoor and outdoor scene using Blender software.

My Roles: For this project, I modeled and textured the castle structure, tables, chairs, tablecloths, food dishes, flowers, wine bottles and glasses for the inside dining room scene. I also assembled the full scene from both group members parts and added lighting to the inside scene.



HYDROTASK

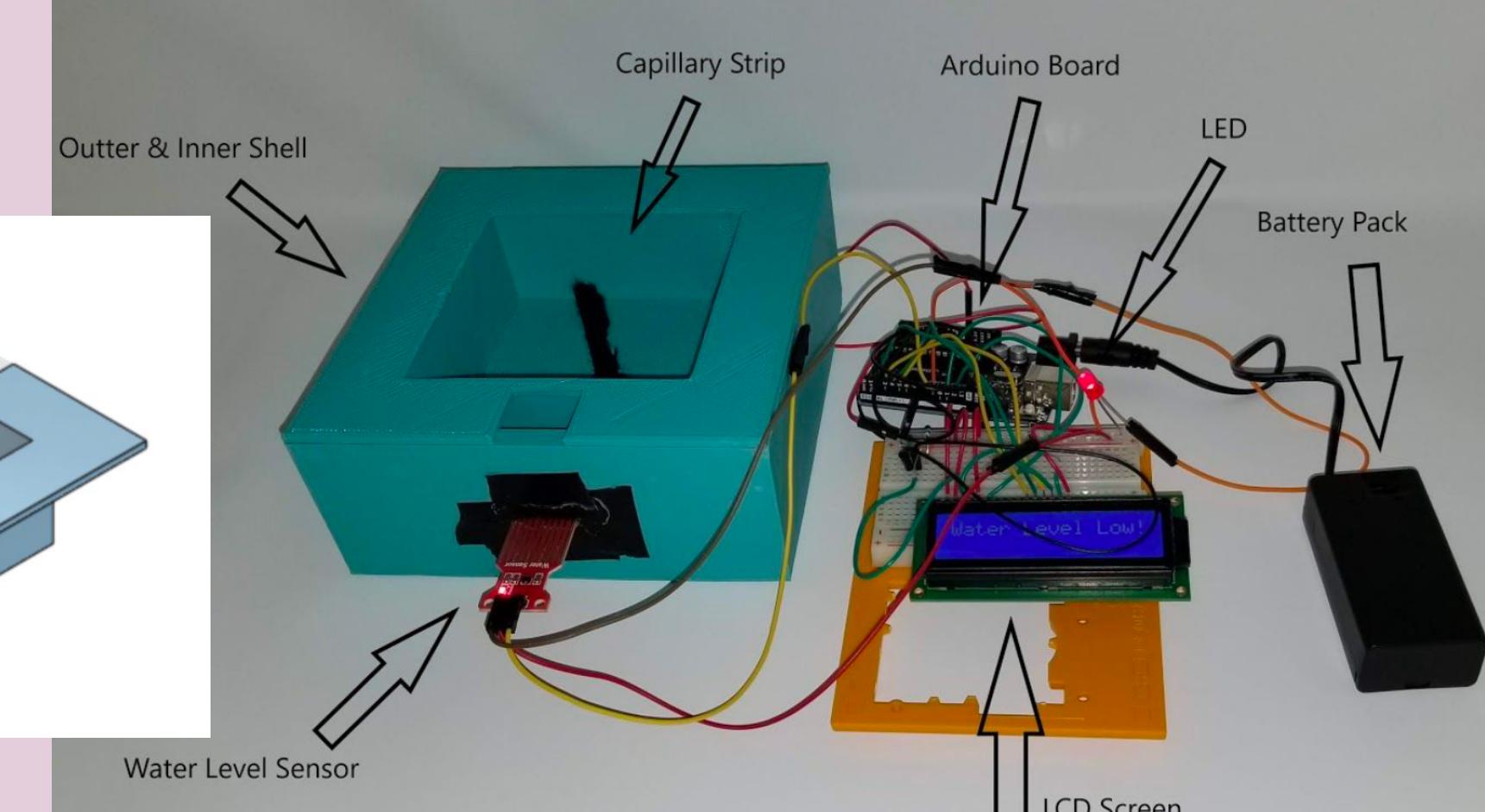
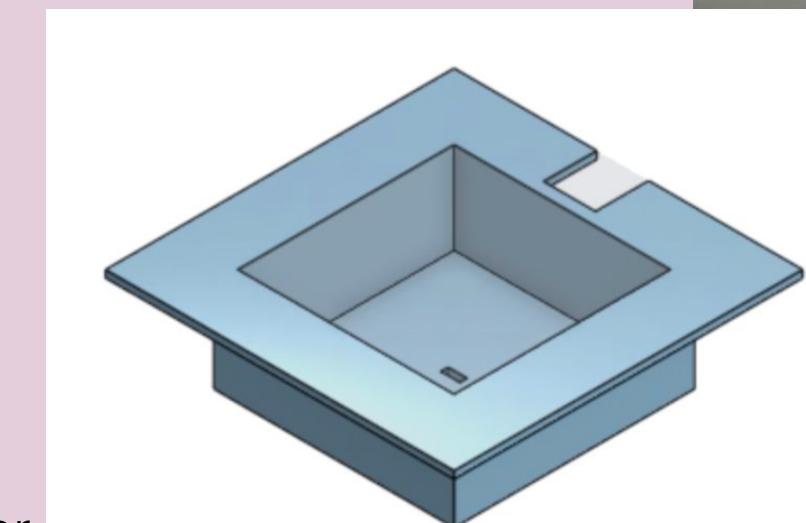
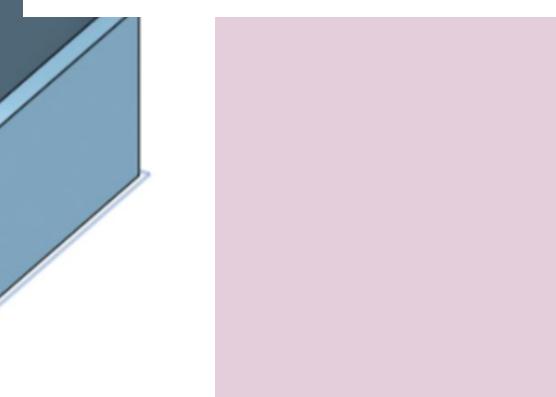
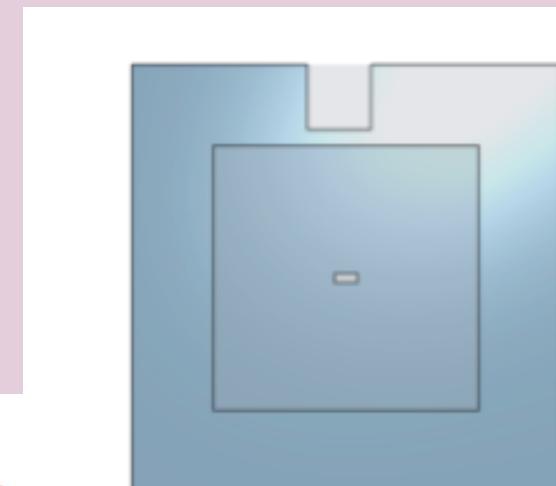
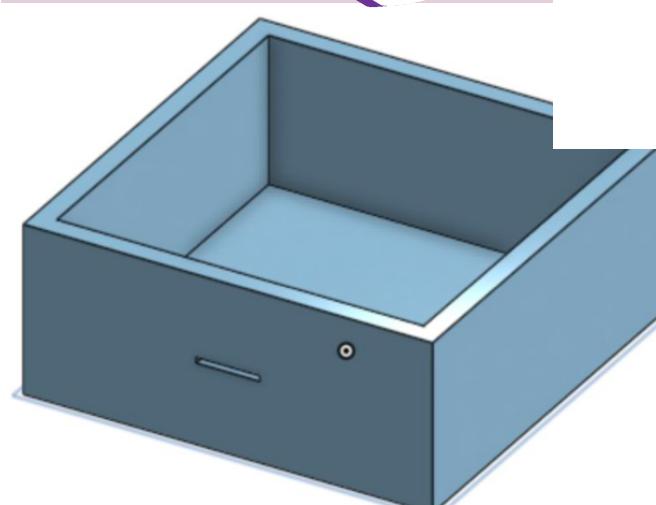
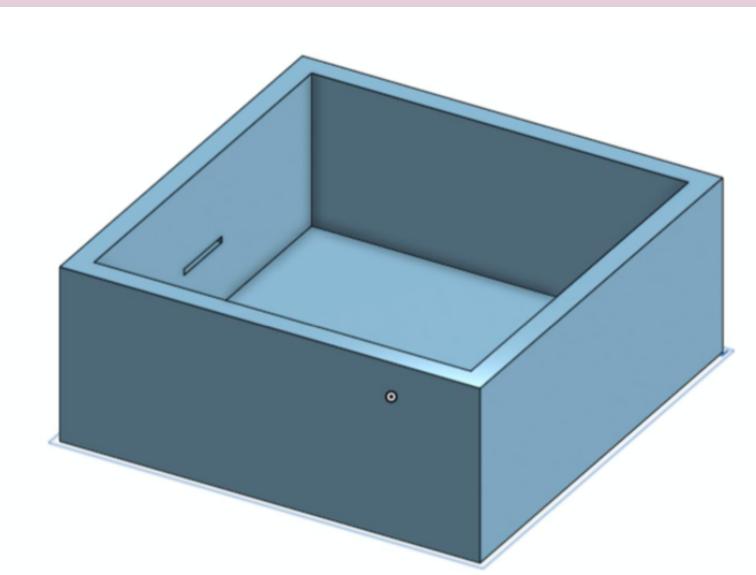
Date: Fall 2019

Class: Engineering Design and Society

Description: HydroTask was crafted for a group class assignment to create a self-watering planter based on our user's human-centered needs. We made use of OnShape for 3D-modeling and 3D-printing and an Arduino Uno for circuitry that detects when the water level in the planter is too low.

My Roles: I was tasked with 3D modeling and printing the square box for the planter as well as the coding and circuits for displaying information on the LCD.

[Click Here
to
View Report!](#)



LCD screen when there is enough water



LCD screen when there is not enough water



Capillary strip opening where soil would be in planter

VR COMMUNITY CENTER INFOMERCIAL

Date: Fall 2021

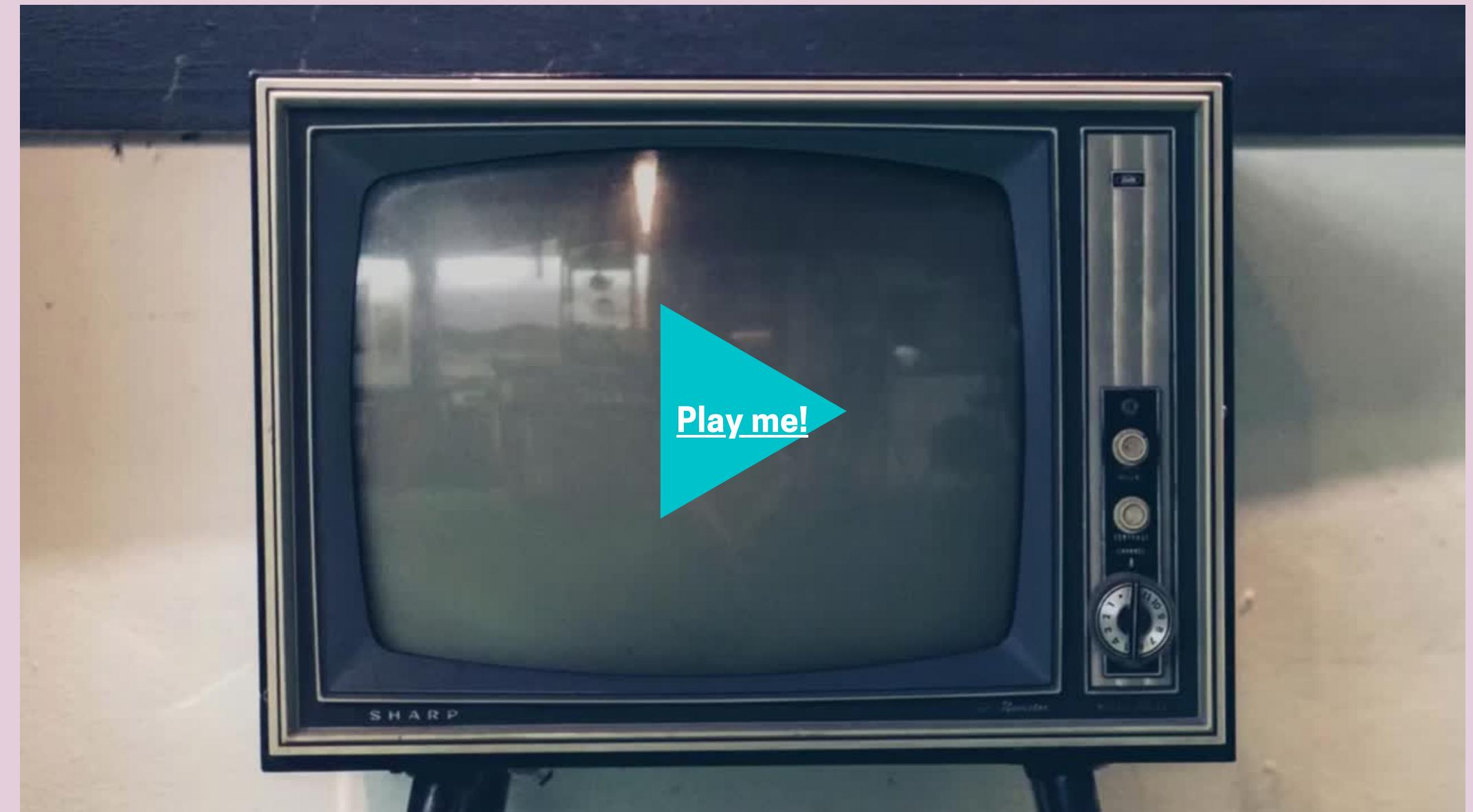
Class: Divergent Thinking

Description: After in-class brainstorming sessions, my group decided on a VR community center as a solution to the problem statement:

There are affordability and accessibility problems in using technology for elderly and children which also increases electric costs. How might we provide affordable and accessible technology to the elderly and children?

Our group filmed an infomercial to describe and advertise our solution.

My Roles: I helped with writing the script for the acting portions as well as edited the entire video to create an informative yet engaging presentation.



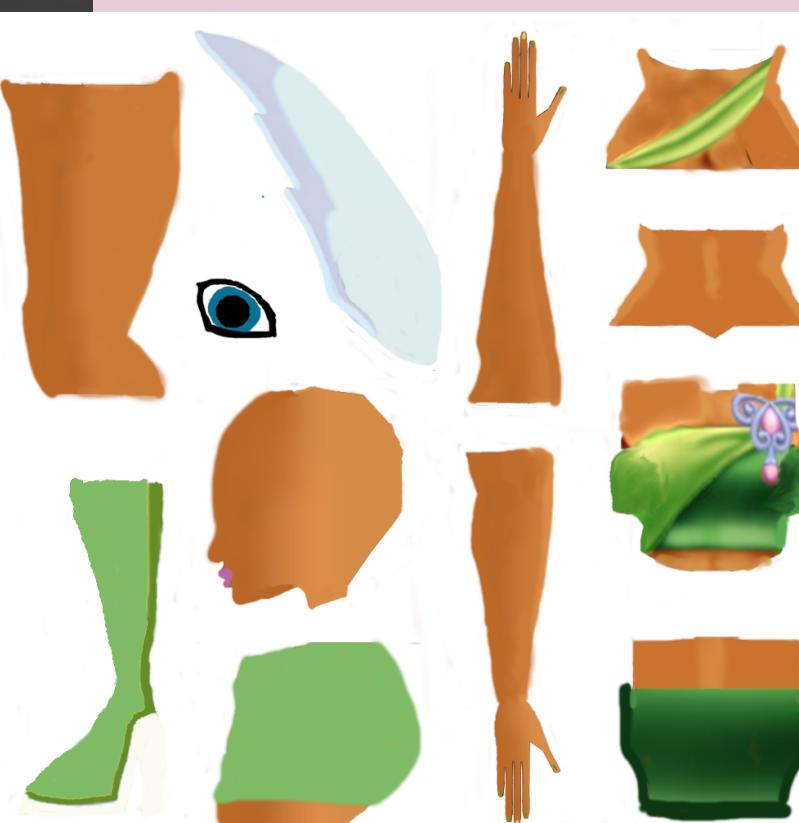
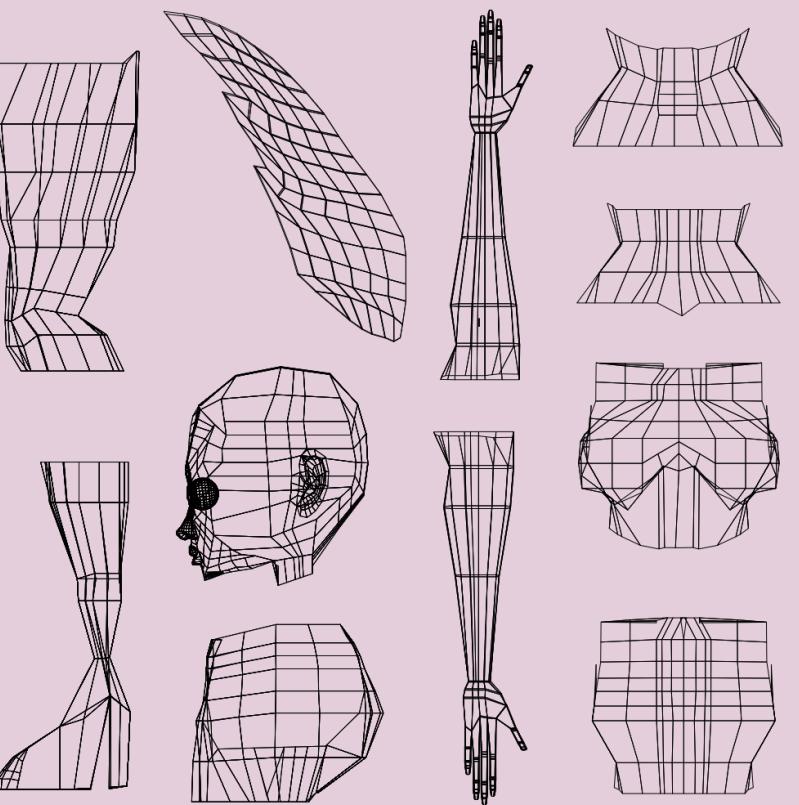
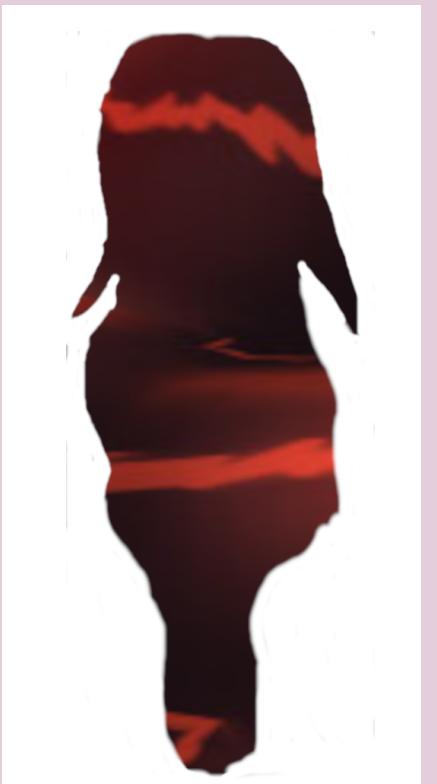
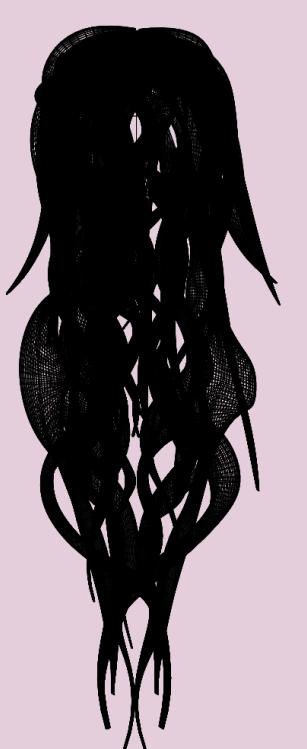
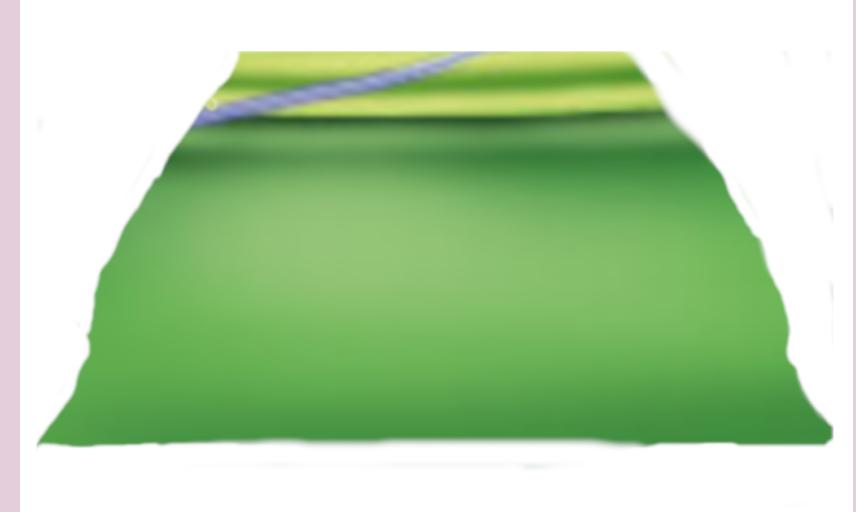
AISHA



Date: Fall 2021

Class: Computer-Aided Modeling

Description: The assignment was to model and texture a character of our choosing using Blender software. I made use of concepts learned in class such as shell and UV mapping to create Aisha, a fairy from the show *Winx Club*. I also utilized GIMP for editing the mapping images.

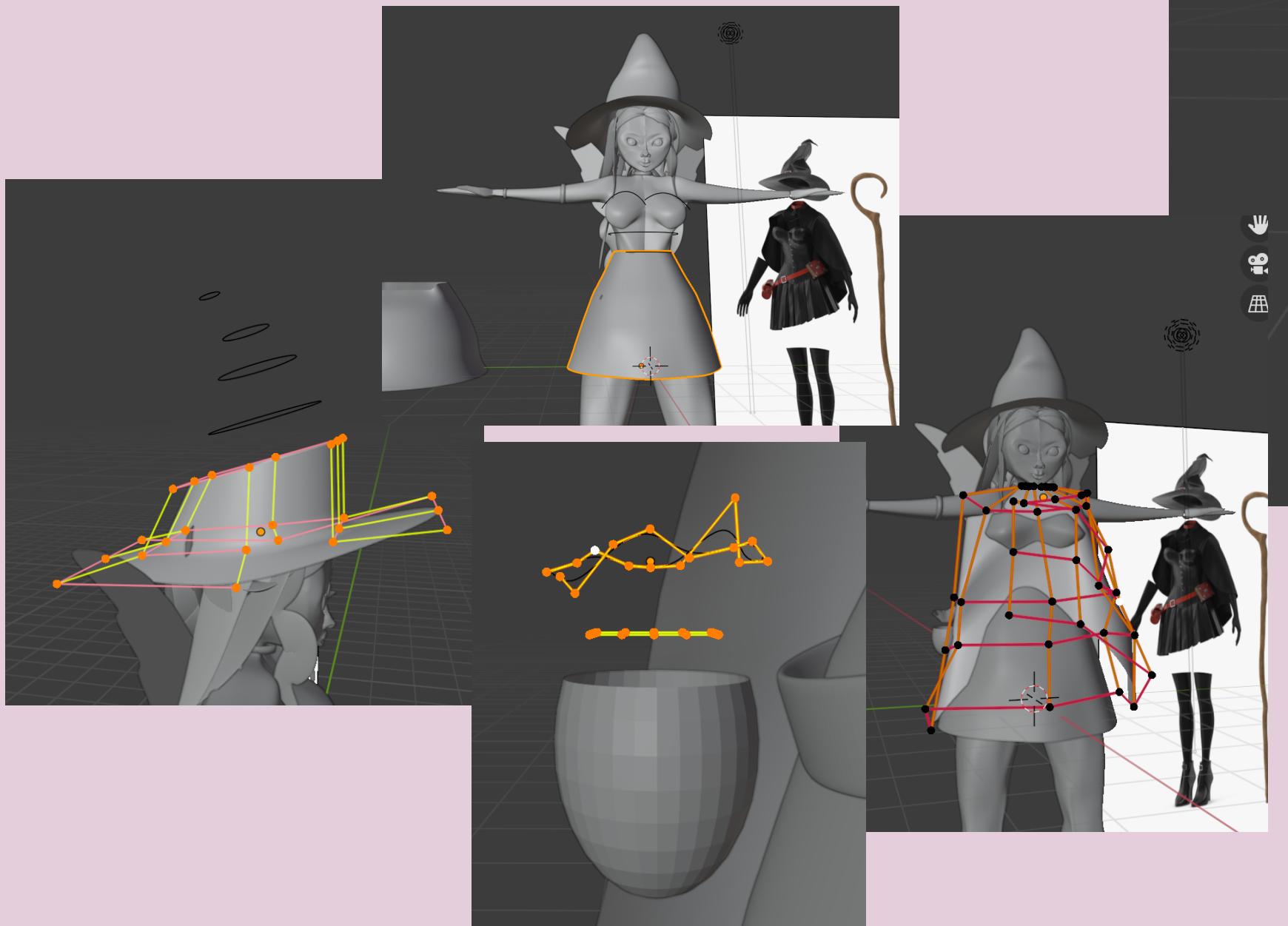


WITCH AISHA

Date: Fall 2021

Class: Computer-Aided Modeling

Description: An extension of the last project, my character has been invited to a Halloween party and needs a costume. I utilized Blender to dress Aisha as a witch. This was a practice of newly learned techniques of curve and NURBS modeling to create the cloth and organic material.



SWIS PROTOTYPE

Date: Fall 2021

Class: Integrated Product and Process Design (IPPD)

Description: As part of the UF IPPD program, my group is working with Raytheon Technologies to develop a modern, secure, and intuitive web portal using React.js and Springboot. Following the engineering processes to design, build, prototype, and test system designs under the guidance of faculty coaches and industrial liaison engineers, we coded a prototype of the web portal.

My Roles: I had the responsibility of coding the dashboard and FAQ pages as pictured as well as choosing colors and images for the design guidelines and moodboard.

Colors

Primaries	Neutrals	Other Shades
Space Cadet #2D3142 Primary Dark <small>Color palette was generated using coloro...</small>	Neutral #242424 Neutral Dark, Text 	Crayola Blue #45AEF2 Accent <small>https://coloro...</small>
Independence #4F5D75 Secondary Dark 	Silver #BFCOC0 Neutral Secondary 	White #FFFFFF Primary Light, Background

CARBONZERO



Date: Fall 2021

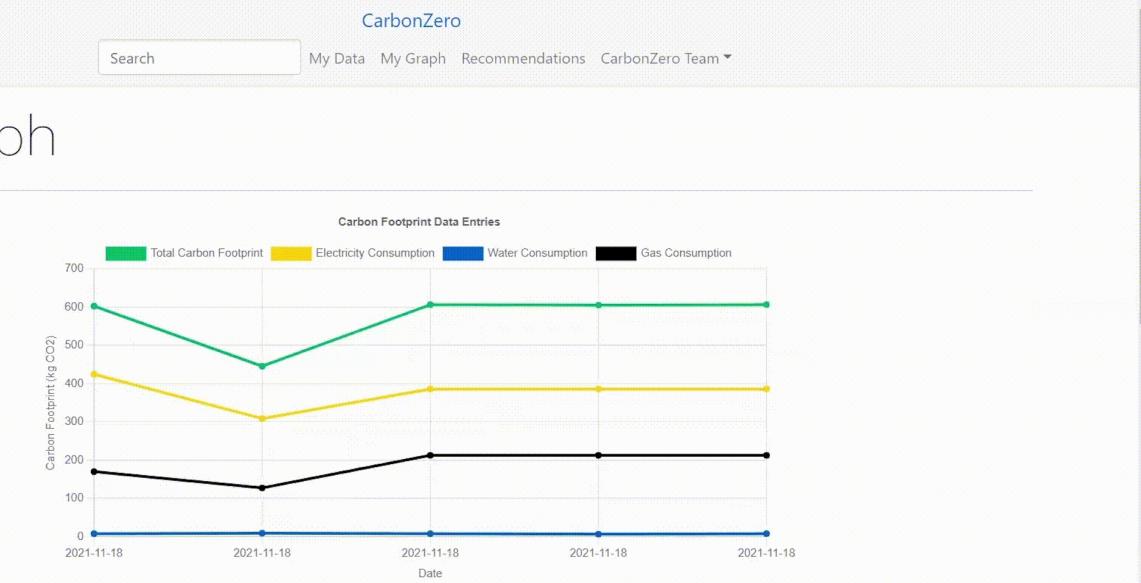
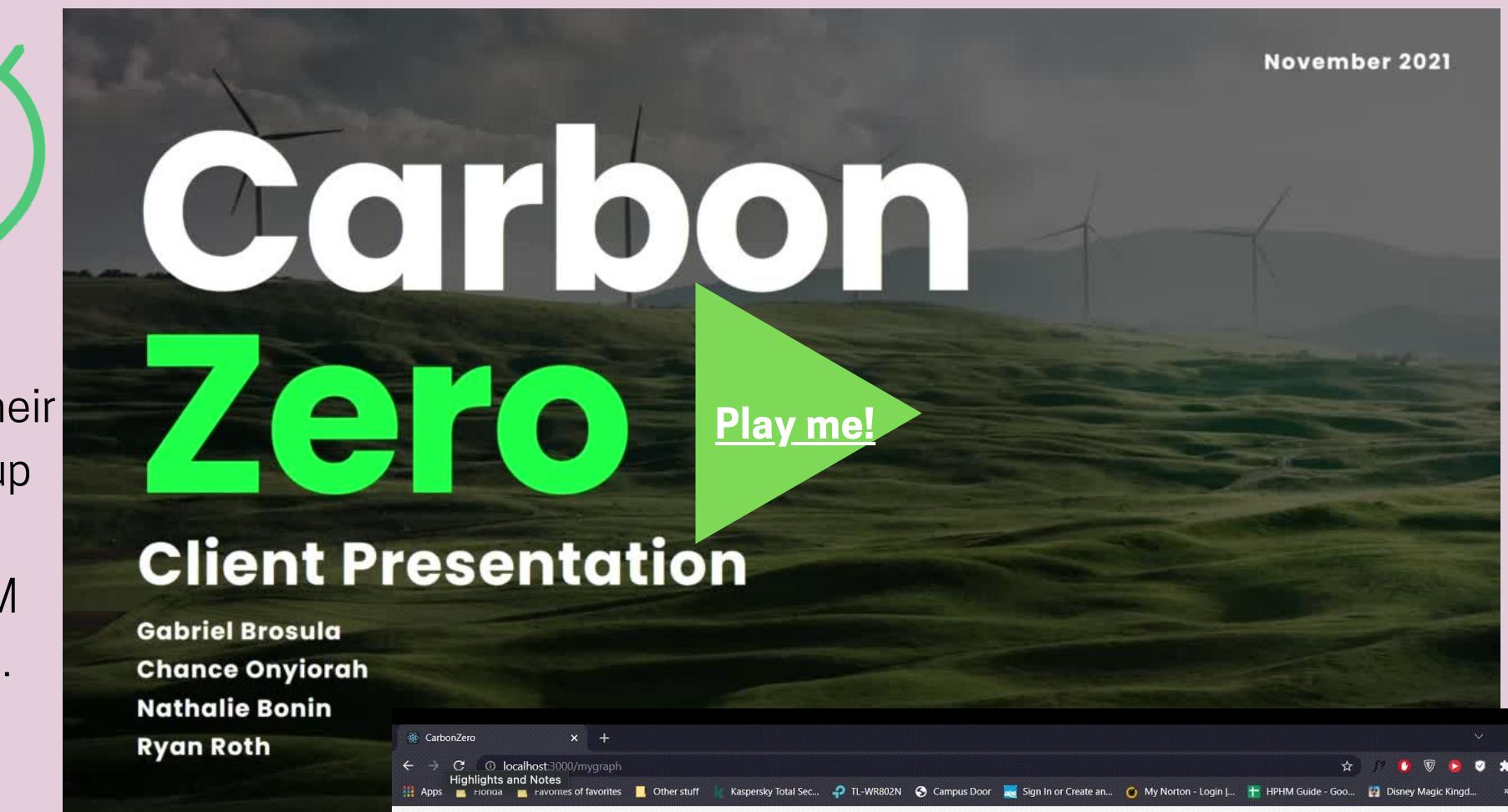
Class: Software Engineering

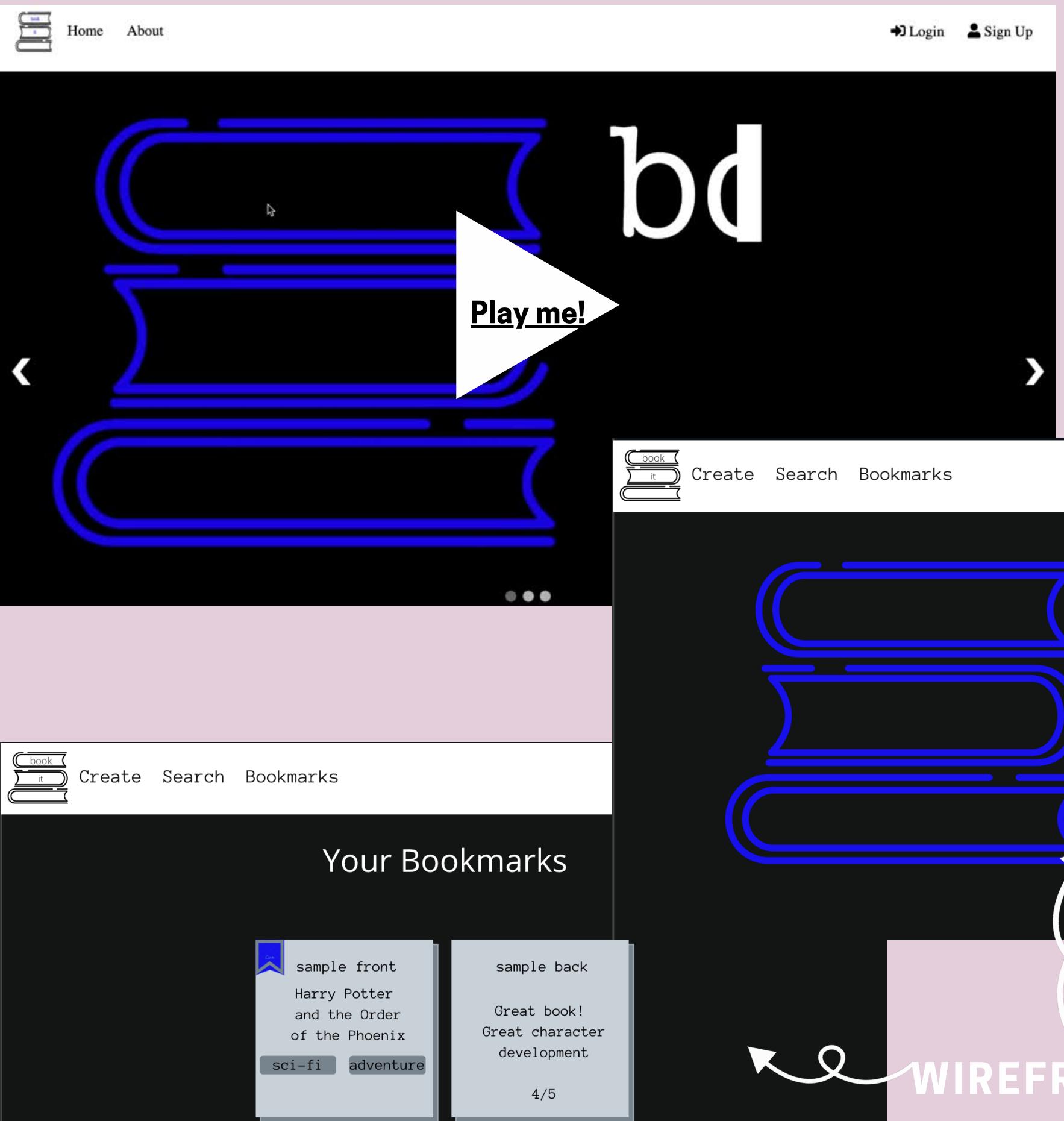
Description: CarbonZero is a web application that allows users to track their carbon footprint and receive tips on how to conserve energy. For this group project, we utilized React.js, Node.js, Express.js, and MongoDB to create a user system with associated carbon footprint user data. We also used IBM AI Watson service to create personalized recommendations for each user.

My Roles: Personally, I worked on setting up the Node and Express environment, the React app basic user interface with a landing page, both frontend and backend of the user system including login, signup, and logout functionality, setting up MongoDB database for user information and Cloudant database for AI component.

The screenshot shows a browser window titled "CarbonZero" with the URL "localhost:3000/login". The page has a header with a search bar and a "Login" button. Below the header is a "LOGIN" section containing two input fields: "Email address" with the value "carbonzeroteam@outlook.com" and "Password". A "SUBMIT" button is located at the bottom of the form. At the very bottom, there is a link "Don't have an account? [Sign Up Here](#)".

The screenshot shows a browser window titled "CarbonZero" with the URL "localhost:3000/recommendations". The page has a header with a search bar and navigation links for "My Data", "My Graph", and "Recommendations". The main content area is titled "Recommendations" and contains three sections: "Electricity Usage Recommendations", "Water Usage Recommendations", and "Gas Usage Recommendations". Under "Electricity Usage Recommendations", there are four items: "Turn off lights when they are not being used.", "Switch to LED lights! They are more energy-efficient.", "Unplug unused electronics! Plugged electronics can utilize power even when off.", and "Turn off the A/C when you are not home.".





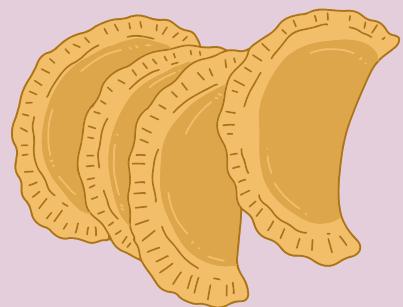
BOOKIT

Date: August 2019 - Present

Independent Project

Description: A book recommendation web application I am currently creating to strengthen Node.js, Express.js, and HTML/CSS programming skills.

TEACH ME



Date: Fall 2021

Class: Divergent Thinking

Description: A partner assignment was given to teach each other the process of doing something that we each do regularly. My partner and I decided to blend our two cultures together as she taught me how to make an Indian healing staple, turmeric milk, while I taught her how to make a vegetarian take on traditional Hispanic empanadas. We also created a video presentation that paints our experience with the viewers as restaurant patrons, complete with a menu and a look into the kitchen to see how the menu items are made.

My Roles: I was responsible for editing the last half of the video where I showed how my partner taught me how to make turmeric milk.

