

Sarah “Saran” Lendzian

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Portfolio: <https://smlendzian.github.io>

Looking for a Summer 2023 Internship (approx. 30 hours/week or less) while taking a class at The Ohio State University.

Education

FALL 2020 - CURRENT

Bachelors of Science in Computer Science Engineering Entertainment Design and Technology Minor

The Ohio State University, Columbus, OH

Course Highlights: FEH Honors Engineering & Honors Physics, Software I & II, CSE Foundations I, Engineering Mathematics A & B, Linear Algebra and Differential Equations for Engineers, Engineering for Entertainment, Introduction to Assistive Technology, Art New Media Robotics

Academic Experience

FALL 2022

“Burnout Bot” Robotics Art Installation

<https://github.com/smlendzian/BurnoutBot>

Collaborated with a partner to create a game-like interactive wall installation/wire sculpture dealing with the mental health concept of burnout.

- Wrote all the code and worked with the partner to design, plan, and construct/solder the artwork.
- Utilized an ESP32 microcontroller, a peristaltic pump using a DC motor to pump oil, a 16 by 16 RGB LED Pixel Display to show an animated face, an AC to DC power supply, LCD Screen, MP3/Speaker, Limit Switch, etc.

SPRING 2021

Engineering Honors Escape Room Design Project

Worked in a group of four to develop a story, designs, and prototypes for an accessible escape room.

My contributions:

- Wired together over 60 individual electronic components (Arduino UNO, Multiplexers, Shift Registers, Buttons, LEDs, LCD Screen, MP3/Speaker, Servos, etc.).
 - Wrote over 2500 lines of object-oriented C++ code (including comments).
 - Built a state machine that cycled through each of the puzzles and stages of the storyline.
 - Developed non-blocking code so that interacting with one component of the system did not prohibit the rest of the system from operating correctly.
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Activities

FALL 2020 - CURRENT

Buckeyes for Accessibility (B4A)

Officer since Fall 2021

- Leading the team to enhance the organization’s website, which will involve creating a website interface for a campus accessibility map.
 - Spoke with leaders and representatives at Ohio State to help them better serve students with disabilities.
 - Assisted at a seminar/mini-involvement fair introducing students to disability culture and resources at Ohio State, for which I spoke at and helped organize by finding student and university-run organizations to meet with students after the presentation.
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Skills

Object-Oriented Programming (including data structures); C++ (Arduino, PlatformIO, Visual Studio Code); Java (Eclipse, JUnit Testing, Beginner Swing Graphical User Interface); Microsoft Office (Word, PowerPoint, Excel); GitHub; SolidWorks (Advanced); Unreal Engine (Beginner); MATLAB (Beginner); HTML/CSS (Beginner); Adobe (Premiere Pro, Beginner Animate); Audacity; Accessible/Disability-friendly Design