

# Sarah "Saran" Lendzian

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## EDUCATION

BACHELORS OF SCIENCE IN COMPUTER SCIENCE & ENGINEERING

DECEMBER 2024

*THE OHIO STATE UNIVERSITY, COLUMBUS, OH*

SPECIALIZING IN COMPUTER GRAPHICS AND GAME DESIGN, ENTERTAINMENT DESIGN AND TECHNOLOGY MINOR

MAGNA CUM LAUDE, 3.85 GPA

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## SKILLS

C#, C++, C, Java, Python, JavaScript, WebGL/GLSL, x86-64 Assembly, SQL, SSMS, Unity, Unreal, Visual Studio, Eclipse, Debugging, JUnit Testing, Multi-Threaded Programming, Agile Development, Microsoft Office, Git, GitHub, SolidWorks, MATLAB, HTML/CSS, XML, LaTeX, WordPress, Windows, Linux, Adobe, DaVinci Resolve, Audacity, Soldering, Achieved a score of 1590 on SAT

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## EXPERIENCE

VIDEO GAMES FOR STEM EDUCATION RESEARCH TEAM

MARCH 2023 TO CURRENT

<https://u.osu.edu/fractiongame/>

- Designing a video game to teach High School Algebra through storytelling and game mechanics.
  - Working in a team to develop a smaller-scale prototype using C# to teach different representations of fractions in Unity.
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## PROJECTS

CAPSTONE PROJECT "ANGEL INSOLVENT"

FALL 2024 TO CURRENT

Scrum master for team of seven software developers (including me) involving scheduling, distributing work, suggesting goals, running sprint planning and retrospective meetings, and adapting plans to fit the needs and challenges of the group.

Programming:

- Develop C# code (Unity) for requirements of the video game, including character interactions and an inventory system.
- Use GitHub Repository for version control, and review pull requests; collaborate with team members to integrate systems.

"BURNOUT BOT" ROBOTICS ART

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

FALL 2022

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

- Wrote all the code (C++) 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.

ENGINEERING HONORS ESCAPE ROOM DESIGN PROJECT

SPRING 2021

Worked in a group of four to develop a story, design, and prototype for an accessible, educational 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 interacting with a system component did not cause the rest of the system to fail.
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## ACTIVITIES

BUCKEYES FOR ACCESSIBILITY (B4A) OFFICER

FALL 2021 TO FALL 2024

Improved organization's website by adding resources/features; spoke with Ohio State leaders to help them better serve students.

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## COURSES

FEH Honors Engineering & Honors Physics, Data Structures & Algorithms (Java), Systems I & II (C/Assembly, Operating Systems), Computer Game and Animation Techniques (Unity, C#), Analog & Digital Electronics, Computer Networking, Linear Algebra, Multivariable Calculus, Engineering for Entertainment, Intro to Assistive Technology, Art New Media Robotics, Intro to Databases (SQL), Intro to AI (Python), Real-Time Rendering (WebGL/JavaScript)

"Professional Game Development in C++ and Unreal Engine" by Tom Looman

Currently Enrolled