

Breck Massey

breckmas@mit.edu 720-275-1665 [linkedin.com/in/breckcmassey](https://www.linkedin.com/in/breckcmassey)
<https://breckmassey.wixsite.com/breckmassey>
<https://github.com/WiggleWigglestudios>

SKILLS

Programming: I am proficient in the following languages: C++, C#, HLSL, GLSL, Java, Python, 6502 Assembly Code, and Processing JavaScript

Game Development: I have experience in game development, using tools such as Unity, and graphics pipeline experience with OpenGL. I have built many games and demos

CAD/Circuit design: I also have experience using tools for CAD, such as Fusion 360 for 3d modeling and Easy EDA for PCB design. I have extensive experience building circuits, such as my own 8-bit computer (see below).

EXPERIENCE

Code Ninjas, Lone Tree, Colorado – *Instructor July 2023 - Feb 2024*

- Taught kids how to code using a variety of languages such as block code, JavaScript, Roblox Studios, and Unity.

Colorado Golf Club, Parker, Colorado – *Caddie, June 2021 - August 2023 (summers)*

- Assisted golfers by carrying clubs, providing input on reading the greens, and taking on forecaddie responsibilities.

8-bit computer/game console – *Personal Project 2022 - 2024*

<https://github.com/WiggleWigglestudios/8BitGameConsole>

- Designed and built an 8-bit computer from scratch based on the 6502 Microprocessor.
- Built a robust graphics card, allowing the computer to play games similar to the Nintendo Game Console Games.
- Programmed a 2D Platformer in 2000 lines of 6502 assembly code.

EDUCATION

Massachusetts Institute of Technology – *6.5 Majoring in Electrical Engineering and Computing - 2025-2029 - Cambridge, Massachusetts*

Valor Christian High School – *2021-2025 - Highlands Ranch, Colorado*

AWARDS

National Merit Scholar, 2024-2025

United States Congressional App Challenge Winner, 2023-2024

Outstanding STEM Award Recipient, 2024 - Valor Christian High School

STEM Inquisitor Award Recipient, 2024 & 2023 - Valor Christian High School

Technology Student Association Recognitions - TSA State Competition

Systems Control Technology: Received prompt on-site, with teams having 3 hours to build a machine to solve the problem

1st place in 2025 & 2024 & 2022

3rd place in 2023

Software Design: Collaborated to write software to classify skin cancer

2nd place in 2024

Video Game Design: Designed a video game according to each year's theme

2nd place in 2024

Semifinalist in 2023 & 2022

Coding: Took and passed the placement test to participate in the final round

2nd place in 2025

Semifinalist in 2024 & 2023 & 2022

Instructional Assistant, AP Computer Science - Valor Christian High School

Opening Speaker at STEM Night, 2022 - Valor Christian High School

National Honors Society, 2022

LEADERSHIP AND SERVICE

Valor Christian STEM Ambassador • Hosted STEM education camp at Joshua Station • Helped build houses through Habitat for Humanity • Assembled water filtration systems for impoverished countries • Provided food for people experiencing homelessness and activities for children