

Samuel R. Walker

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EDUCATION

University of Colorado at Boulder

Expected May 2025

B.S. in Electrical and Computer Engineering, Minor in Computer Science

- Cumulative GPA: 3.787/4.00; Major GPA: 3.958/4.00
- Honors: Dean's List, Chancellor Scholarship, Graduating in 3 years
- Relevant Coursework: PCB Design, Electronics Design Lab, Embedded Systems, Digital Logic

Keller High School | GPA: 4.28/4.00

May 2022

TECHNICAL SKILLS AND PROJECTS

Technical Skills | PCB Design, Arduino, C++, Python, Java, C#, R, Debugging, Circuit Design, Soldering, Excel

Automated Lab Feedback System

May 2024 – Present

- Implemented a circuit and scope verification tool intended for use by 150 students per semester
- Created an intuitive and simplistic user interface through CustomTkinter in python

Analog to Digital Converter (ADC) Hardware Characterization for ESP32

May 2024 – Aug 2024

- Designed four independent software defined instruments to help characterize the ADC of an ESP32: Scope, Strip Chart, AC RMS Noise, DC Calibration using python and Arduino
- Reduced ADC error by a factor of 100 by utilizing AC RMS and DC Calibration results

Platformer Video Game

May 2019 – Aug 2021

- Developed a minimum viable product 2D platformer game with a comprehensive upgrading system and continued to iterate on the design using Unity and C#
- Implemented physics-based gameplay mechanics, such as jumping and collision detection

WORK EXPERIENCE

Ski Instructor | Winter Park Resort Ski and Ride School

December 2024 - Present

- Instructed an average of 4–8 students per day across 20 lessons, tailoring lessons to diverse skill levels
- Customized lesson plans to build confidence and progression in skiing techniques for all participants

Teaching Assistant | Engineering Department University of Colorado

August 2023 – December 2024

- Held five office hours every week with more than five students at each session
- Learned important leadership and conflict resolution skills while structuring a team environment

Door to Door Salesman | Aptive Environmental

June 2023 – July 2023

- Sold \$25k worth of pest control service in only six weeks
- Completed two weeks of sales training focused on objection handling and communication skills

Lacrosse Coach | Cricket's Indoor Lacrosse and Texas Venom Lacrosse Club

May 2017 – July 2022

- Coached over 150 athletes from kindergarten to middle school fostering a positive environment
- Led Texas Venom to three championship appearances out of four tournaments

ACTIVITIES AND INTERESTS

Activities | Skiing, Snowboarding, Climbing, Varsity Hockey, Varsity Lacrosse, Competitive Robotics Club

Interests | Programming, Artificial Intelligence, Robotics, Video Game Development, Smart Home/IoT