DEVAN SOLIMAN

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EDUCATION

Stanford University, Stanford, CA - **B.S. in Computer Engineering** Expected June 2025

Relevant Coursework:

- Object-Oriented Programming
- Computer Systems
- Graphics
- Operating Systems
- Circuits
- Mathematical Foundations of Computing
- Digital System Design
- Electricity and Magnetism

SKILLS

Programming Languages: Assembly, C, C++, C#, HTML & CSS, Java, LaTeX, MATLAB, Python, Verilog
Prototyping: CAD, 3D printing slicers, Vivado Design Suite
Digital Media: Adobe Lightroom, Photoshop, Premiere Pro, Blender, Unity Engine
Productivity: Git, Google Workspace, Microsoft 365
Amazon Web Services: DynamoDB, Lambda, SageMaker

PROJECTS

Action Camera 2022 – present

Creating an open-hardware action camera. Programming imaging software that can shoot photo and video simultaneously. Designing smart LiPo-based power supplies and 3D-printable, high-durability enclosures compatible with a range of mounting systems.

RTL Music Player 2023

Programmed an FPGA into a music player. Player read notes and time values from a ROM and generated sine waves to send to an audio output in real-time. Supported combining simultaneous notes into chords. Expanded functionality included track selection, fast-forward, and rewind.

ARM OS + Wireless Chat 2022

Built an ARM-based desktop computer from bare metal. Programmed memory management system, drivers for input and graphics, shell, and commands. Added reliable two-way communication platform by writing Wi-Fi microcontroller driver, microcontroller firmware, and chatroom application.

EXPERIENCE

XR Research Assistant, Virtual Human Interaction Lab (Stanford, CA) September 2023 – present

- Developing XR projects, modeling virtual environments, and analyzing data in collaboration with researchers through Virtual Reality Intensive Training Seminar (VRITS)

Analog Computing Research Assistant (Stanford, CA) June 2023 – August 2023

- Investigated and developed new programming tools (language, validator, compiler) for nontraditional computational platforms aimed at high-speed and high-efficiency applications

Data Analyst Intern, Hubbub World (remote) July 2022 – September 2022

- Developed software to monitor and visualize the monkeypox epidemic
- Leveraged Amazon Web Services and Microsoft Power Platform to process and store data

Cofounder / Chief Technical Officer, WΛVE. (Berkeley, CA) June 2019 – July 2019

- Prototyped weather-resistant sensors for waste management and pollution reduction
- Programmed autonomous waste level sensing and wireless data reports

INTERESTS

- Additive Manufacturing
- Motorsports
- Tennis
- Building Skateboards
- Mountain Biking
- Ultimate Frisbee