

# Audrey Wiebe

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## EDUCATION

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### University of Southern California, Viterbi School of Engineering

May 2028

Bachelor of Science, Astronautical Engineering

GPA: 3.86/4.00

**Skills:** MATLAB, Python, SQL, Agile SDLC Methodologies, Microsoft Excel, Multisim, Swift, Xcode, GitHub, Engineering Project Documentation, Communication, Strategy Formulation

**Relevant Coursework:** Introduction to Astronautics, Physics: Mechanics and Thermodynamics, Advanced Programming in Python

## EXPERIENCE

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### NASA L'SPACE Mission Concept Academy Program

January 2025 - Present

- Virtual NASA workforce preparation academy dedicated to teaching space mission concept formulation and the NASA mission life cycle.
- Engage in weekly lectures from NASA scientists, engineers, and managers.
- Maintain communication with team operations and procedures in preparation for a Preliminary Design Review oral presentation.

### Kern Health Systems

Bakersfield, CA

*Enterprise Development Extern*

June 2024 - August 2024

- Formulated SQL queries to pull and organize healthcare data within Microsoft SQL Server Integration Services.
- Coordinated daily Scrum meetings, practicing Agile Development Lifecycle within Enterprise Development team.
- Cooperated with database administrators to identify and clear 100+ outdated databases.
- Processed 15,000+ medical claims using Microsoft Excel and Electronic Data Interchange softwares.

## PROJECTS

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### Digital Logic Voting Circuit

January 2024 - February 2024

- Designed digital logic circuit to take four voting inputs and output results of theoretical election.
- Simulated circuit in Multisim and simplified logic expression using Boolean algebra operations.
- Documented truth table, design, and simulation notes in engineering notebook.
- Partnered with another student to build circuit on myDAQ board deploying combinations of AND, OR, Inverter, NAND, and NOR logic chips.

### ClimateCentric

June 2023

*Kode With Klossy iOS Mobile App Development Scholar*

- Used Swift programming language to code one-screen mobile applications and push and pull projects in GitHub.
- Collaborated with a project group to brainstorm and create a wireframe for iOS mobile app ClimateCentric.
- Coded and created functional user interface for a carbon footprint calculator quiz within ClimateCentric.

### Airfoil Redesign

October 2022 - November 2022

- Collaborated with one other student to research airfoil and weight of Zlin Z 42 aircraft.
- Simulated airfoil using FoilSim software and adjusted angle of attack, thickness, and camber of airfoil.
- Produced simulated airfoil with same lift as aircraft weight and larger L/D ratio than original airfoil.
- Documented airfoil sketches, calculations, and simulation results in engineering notebook.

## LEADERSHIP AND INVOLVEMENT

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### USC Society of Women Engineers

Los Angeles, CA

*Corporate Committee Ambassador*

September 2024 - Present

- Participate in arrangement of company sponsors and organization of industry panels and networking events.
- Engage in biweekly committee, executive board, and club-wide meetings.
- Encourage women and non-binary individuals interested in engineering to join Society of Women Engineers community.