Audrey Wiebe

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EDUCATION

University of Southern California, Viterbi School of Engineering May 2028
Bachelor of Science, Astronautical Engineering

Bakersfield High School May 2024
Relevant Coursework: Principles of Engineering, Aerospace Engineering, Digital Electronics, AP Physics 1, AP Computer Science Principles
Skills: SQL, Agile SDLC Methodologies, Microsoft Excel, Multisim, Swift, Xcode, GitHub, Engineering Project Documentation

WORK EXPERIENCE

Kern Health Systems Bakersfield, CA
Enterprise Development Extern June - 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.
- Collaborated with database administrators to identify and clear 100+ outdated databases.
- Processed 15,000+ medical claims using Microsoft Excel and Electronic Data Interchange softwares.

PROJECTS

Digital Logic Voting Circuit January - 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.
- Collaborated with another student to build circuit on myDAQ board using 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 - November 2022
- Collaborated with one other student to research airfoil and weight of Zlín Z 42 aircraft.
- Simulated airfoil using FoilSim software and adjusted angle of attack, thickness, and camber of airfoil.
- Produced simulated airfoil with the 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

USC Society of Women Engineers Los Angeles, CA
Leadership Ambassador September 2024 - Present
- Participate in career building and networking workshops.
- Encourage women and non-binary individuals interested in engineering to join Society of Women Engineers community.