

Aira McDaniel

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Education:

Bachelor of Science/ June 2026

Oregon State University 2022- 2026

- Major: Chemical Engineering
- Minors: Chemistry and Material Science

Associate degree/ June 2022

Wenatchee Valley College- 2020-2022

- Major: Arts and Sciences

Proficiencies:

Software: Python, C++, Java, Arduino, and Microsoft Office.

Laboratory: Energy balances, process flow diagrams, data analysis, risk assessment, teamwork, and rheology.

Communication: Public speaking, Presentation Designs, and meeting facilitation.

Writing: Engineering memos, technical writing, laboratory reports, and research papers.

Experience:

Dr. Skip Rochefort Laboratory at Oregon State University:

Laboratory Assistant/ February 2024- Present

- Led a team of 8 undergraduate researchers in developing a novel fire-resistant roof system using water-retentive polymer pouches to prevent ignition during wildfire exposure.
- Conducted controlled laboratory burn tests simulating extreme fire conditions to assess thermal protection performance of various polymer pouch compositions and configurations.
- Analyzed experimental data with precision to evaluate pouch effectiveness, balancing thermal resistance, cost, and weight for practical roof deck integration.

Summer Experience in Science and Engineering:

Counselor and Project Mentor/ July 2024

- Developed and implemented a comprehensive laboratory project, fostering practical skills and teamwork.
- Guided students in conducting experiments and using industrial-grade equipment, building technical proficiency.
- Introduced students to various engineering career opportunities, inspiring interest in engineering.

Rooster Espresso and Ice Cream:

Barista/ October 2020- September 2023

- Created strong connections with customers to further strengthen customer service.
- Identified resources and promptly stock materials to upkeep efficiency and product.
- Maintained high standards of customer service during high-volume, fast-paced operations.

Volunteer Work:

City Of Omak Washington:

- Assisted in the setup of tipis for the Omak Stampede Indian Encampment and aided cleanup efforts, promoting environmental stewardship and cultural preservation.