

Caitie DeShazo-Couchot

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EDUCATION

University of Washington, B.S. Electrical and Computer Engineering

September 2020 - December 2023

EXPERIENCE

SpecTree Inc., Research Engineer I

January 2024 - PRESENT

- Enhanced product performance by conducting quality tests and analyzing results with 10+ tools and methods, leading to faster product iteration and improvement, expediting product development by 33%
- Streamlined progress reporting with thorough documentation, complete with monthly and weekly reports and presentations, improving team communication speed and sponsor engagement
- Optimized product performance analysis by designing and calculating efficiency metrics from 50+ data sets, supporting data-driven decisions for next features and improvements of products

Fred Meyer Supermarket, Customer Service Representative

March 2020 - PRESENT

- Improved customer satisfaction by balancing 20+ array of tasks such as money transfers and product returns, with flexibility, decreasing wait time by 50% for store servicing 10,000+ customers
- Earned exceptional performance recognition by maintaining a customer-first attitude, achieving 4 perfect annual performance reviews and 5 awards from district managers
- Advanced operational efficiency with both product and customer concerns through strategic problem resolutions, lowering shrink and product loss from customer service desk by 75%

Sensors, Energy, & Automation Laboratory (SEAL), Lead Research Assistant

March 2022 - January 2024

- Secured a \$50K grant and co-authored multiple successful proposals, demonstrating skills in managing funding and developing strategic solutions
- Led a team in conducting 20+ energy audits for the UW Industrial Training and Assessment Center, implementing 150+ recommendations that saved \$4.97M and 3.0 TBtu energy for local manufacturers
- Developed and implemented 5+ training programs and 15+ promotional documents, increasing lab-wide productivity by 300% through a new task organization system and student recruitment by 15%
- Utilized automation tools to streamline processes and achieve DOE certification for all reports, guiding manufacturers to secure over \$80K in grants, showcasing ability to cooperate with external collaborators

SKILLS

Industry: Quantitative Research, Communication, Data-Driven Decision Making, Market Analysis, Leadership

Technical: Java, Python, C++, Embedded Design, Signal Processing, Technical Writing, Experimental Testing

PROJECTS

Detection and Solutions for Leaks in Inert Gas and Compressed Air Lines

June 2023 - December 2023

- Computed and analyzed energy and financial benefits of reducing air leaks in compressed air lines for 20 facilities, recommending average savings of \$10,000 per facility.
- Produced detailed reports on air compressors for 20 facilities, calculating energy losses and providing targeted recommendations with data-driven analysis

SoftwAIR: Smart-Home Air Purification Software

October 2021 - March 2022

- Designed 30 user interface components and software wireframes for SoftwAIR, leading a team of 8 to develop a compelling 7-minute demonstration including market analysis
- Achieved Top 10 finalist status out of 200+ teams from 6+ countries in 4 innovation competitions for SoftwAIR, highlighting the project's market potential and innovative features