

# Sydney Mochizuki

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## Education

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### University of Washington, Bachelor of Science, Industrial Engineering

Sep 2021 – Jun 2025 | Seattle, WA

*Relevant Coursework:* Design of Experiments, Human Factors, Intro to Manufacturing Systems, Linear & Network Programming, Simulation, Statistical Quality Control

GPA: 3.4

*Certificates:* CITI Program Certificate in Human Research

*Study Abroad:* Landscape Architecture and Architecture Design, Croatia (Sep 2024 - Dec 2024)

## Work Experience

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### Stellant Systems, Industrial Engineering Intern

Jun 2024 – Sep 2024 | Los Angeles, CA

- Conducted 30+ stop watch time studies on three key manufacturing processes within a high-volume contract program, identifying bottlenecks and areas for improvement in takt time and resource efficiency.
- Quantified manufacturing bottlenecks via Excel analysis of the time studies, and presented actionable recommendations to senior management, which were projected to improve takt time upon implementation.
- Contributed to a Value Stream Mapping project, which involved on-site observations, developing a spaghetti diagram, and analyzing value-added versus non-value-added activities.

### Puget Sound Energy, Supply Chain Intern

Jun 2023 – Sep 2023 | Seattle, WA

- Mapped warehouse processes using Visio, creating 5+ detailed flowcharts that improved process clarity and served as the foundation for a successful digitization initiative.
- Integrated digitized Visio-based process flowcharts into the warehouse's SharePoint site, improving accessibility for 50+ workers and reducing process related inquiries to supervisors weekly.
- Presented findings and actionable recommendations for short-term and long-term (10+ years) warehouse capacity optimization to senior management.

## Additional Experience

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### Wyze Labs & University of Washington - Industrial Engineering, Capstone Project Team Member

Jan 2025 – Jun 2025 | Seattle, WA

- Evaluated AI-driven support versus human support agents, discovering critical performance gaps and presenting findings to fix the two biggest causes of customer dissatisfaction.
- Developed and implemented UX/UI prototypes for Wyze's support website to enhance AI feature accessibility, resulting in a 57% reduction in user time and a 49% decrease in clicks during usability testing.

### University of Washington - College of Engineering, Engineering Ambassador

Sep 2023 – Jun 2024 | Seattle, WA

- Facilitated interactive engineering lesson plans to 75+ prospective K-12 students at university outreach events, yielding an increase in student applications to the College of Engineering within the following academic year.
- Developed an interactive Excel-based event sign-up and tracking system with automated visual indicators, improving event management efficiency and participant tracking for over 15 users.
- Guided prospective students and families through engineering campus tours weekly and participated on panels.

## Skills

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Continuous Improvement, Data Analysis, Design Thinking, Excel, Figma, Kaizen, Lean Six Sigma, Market Analysis, Project Management, Prototyping, Python, Root Cause Analysis (RCA), Stakeholder Management, Technical Communication, Time Studies, User Research, Value Stream Mapping, Workflow Optimization