

Meghan Eliza Liu Stancliff

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Education

University of Colorado at Boulder

August 2022-Present

- Bachelor of Science in Biomedical Engineering, Minor in Creative Writing, May 2025

Technical Skills

- CAD: Certified in Fusion360, Certified SolidWorks Mechanical Design Associate
- Programming: Certified in MATLAB, Certified in Excel/VBA

Skills

- Soft Skills: efficient learner, initiative taker, good communicator, team player
- Programming: Certified in MATLAB, Certified in Excel/VBA

Work Experience

Burleson Global Design Group at the University of Colorado at Boulder

May 2024-Present

Undergraduate Student Researcher

- Independently create and lead design activities and interviews; observe how designers represent stakeholders
- Conduct literature reviews pertaining to Stakeholder Perspective Taking (SPT) and qualitative data collection
- Publish two reports through ASME's IDETC on stakeholder engagement to improve design methods + processes

Engineering for Change / Prometheus Materials

May 2025-September 2025

Fellow/Intern

- Research sustainable concrete practices while learning about concrete manufacturing carbon emissions
- Screen several ProZero mixtures for properties optimal for 3D printing concrete while reducing carbon footprint
- Improve workflows and learning modules to improve fellow and managing fellow learning outcomes

NASA | Convergent Aeronautics Solutions Project

May 2024-August 2025

Undergraduate Research Assistant

- Create a framework of how to implement technologies to help American people living in rural communities
- Research how large language models (LLMs) may be utilized in interview debriefings to streamline data collection
- Assist team members in generating ideas of how current aeronautic technologies may improve American society

Tutor

June 2018-Present

Self-Employed

- Teach middle- and high-school students math, science, English, and history concepts
- Prepare materials to supplement learning such as practice problems, reading passages, and articles
- Help students raise their grade in the subject they struggle with learning and understanding

Leadership Experiences

Wheelchair Project at the University of Colorado at Boulder

May 2024-June 2024

Team Leader

- Conduct interviews with wheelchair users and medical professionals to understand the impacts of wheelchair use
- Research how wheelchair technology and use has evolved over time through scholarly and non-scholarly sources
- Create a report and presentation with findings; redesign wheelchair with user feedback in mind

Partnership with JAECO Orthopedic

August 2023-December 2023

Team Leader/Student Engineer

- Delineate/organize tasks; sole communicator with JAECO spokesperson, present electronic tensioning system
- Used SolidWorks and 3D printers to create encasement for system; research sustainably responsible power banks
- Electronic tensioning system was designed with JAECO's MultiLink Arm Support client independence in mind

Academic Clubs and Enrichment Activities

Tea Club

August 2021-May 2022

Club Member

- Collaborate with club members to engineer under-water robots to compete in MATE ROV
- Utilized SolidWorks to design and test various waterproof electronics bay prototypes before construction