

Lily Dykstra

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EDUCATION

B.S. in Creative Technology and Design Engineering

University of Colorado Boulder

May 2026

GPA 3.9

Relevant Coursework: Software Development, UX/UI, Computer-Aided Design, 3D Modeling, Fabrication

EXPERIENCE

University of Colorado Boulder, ATLAS Institute

Boulder, CO

Learning Assistant – Image and Form Courses

August 2023-April 2026

- Evaluate assignments for 18 students ensuring consistent grading quality while identifying recurring usability and comprehension issues in assignments.
- Partner with faculty to iterate on curriculum design, identify student pain points, and propose changes to increase clarity and learning outcomes across the course.
- Independently lead weekly office hours and manage all course correspondence for 18 students; resolved ~95% of inquiries solo, significantly reducing faculty administrative burden and maintaining a <24-hour response time.

Gfifx

Denver, CO

Prototype Designer and Co-Founder

May 2024-Current

- Lead the prototyping and design for a startup developing smart GFI (Ground Fault Interrupter) units, translating complex electronics into consumer-ready enclosures.
- Engineered 5+ unique electronics enclosures in Fusion 360, executing 3+ iterations per model to optimize internal component fit and structural reliability.

Calypso AI

Denver, CO

Intern

May 2024-August 2024

- Engineered 10+ customized Amplitude dashboards to analyze customer engagement and user paths, identifying critical friction points that informed UI/UX optimizations and streamlined the onboarding journey.
- Benchmarked 20+ global AI firms by mapping specific product features and capabilities, delivering comprehensive spreadsheets to executive leadership to define the company's competitive positioning.

Aviano Coffee

Boulder, CO

Barista/Cashier

February 2025–November 2025

- Managed high-velocity operations in a café environment, serving 100+ customers per hour during peak periods while maintaining 100% accuracy in transactions and quality control.
- Balanced 15 hours of weekly shifts alongside a rigorous curriculum, demonstrating exceptional time management and the ability to perform under sustained pressure.
- Optimized service workflows and coordinated with team members to maximize throughput, ensuring professional service and rapid conflict resolution during high-volume windows.

LEADERSHIP

Board member, CU Boulder Chapter of Society of Women Engineers

August 2023-May 2024

Volunteer Summer Camp Counselor, Collins and Katz Family YMCA

July 2021-Current

TECHNICAL SKILLS

Fusion 360, Onshape, Rhino 7, SketchUp, Blender, Figma, 3D Printing, Laser Cutting, Thermoforming, Soldering, User Research, Usability Testing, Iterative Prototyping, Adobe Creative Suite (Photoshop, Illustrator, InDesign), Wireframing, Prototyping, Storyboarding, Sitemaps, User Flows, Arduino, Object-Oriented Programming, HTML, CSS, Front-End Coding, Responsive Design