

Maddie Burroughs

she/her
Email: maddiercb@gmail.com
Cell: 224.565.0130
www.maddiercb.com

Education	Carnegie Mellon University Pittsburgh, PA Bachelor of Science in Electrical and Computer Engineering Additional Major in Design of Interactive Media	May 2025
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Relevant Experience	Origami Risk Associate Software Engineer Software Engineering Intern	Chicago, IL Aug 2025 May - Aug 2024
	<ul style="list-style-type: none">- Designed and built a microservice platform for code-less payment providers configuration, generalizing API steps and data structures into a block-based workflow interface	
	Scotch'n'Soda Theatre Company Production Manager, Technical Director, Designer	Pittsburgh, PA Aug 2021 - Present
	<ul style="list-style-type: none">- Facilitate 7 rounds of deliverable meetings between the creative team and scenic, lighting, sound, costuming, hair & makeup, and publicity teams- Coordinate overall production budget of up to \$25,000- Maintain communication between technical, creative, and production teams, as well as university personnel, throughout each multiple-month show process- Host production events for 125+ people, including design previews, load-in, strike, and inspections- Design and oversee the implementation of original scenic sets for musicals and plays	
	Carnegie Mellon University Content Lead, Events Lead - Fundamentals of Programming (15-112/110)	Pittsburgh, PA Aug 2022 - Present
	<ul style="list-style-type: none">- Develop and revise weekly instructional content, including instructional session plans, practice assessments, and rubrics- Redesigned the course's month-long term project- Organize and host course events for over 250 students, including a 24-hour hackathon- Lead weekly recitations, office hours, as well as host periodic 1:1 tutoring and large review sessions	

	Teaching Assistant - Inflatables (53-330)	Jan 2025 - Present
	<ul style="list-style-type: none">- Assist students from various disciplines through multiple sewing projects, culminating in teams creating room-sized inflatables- Facilitate first time collaboration between course staff and Dr. Jean Oh's BIG Robotics Lab- Assist in the planning and execution of an end of semester showcase	

	Lunar Gala Fashion Show Head of Stage Design	Pittsburgh, PA Aug 2023 - Apr 2024
	<ul style="list-style-type: none">- Designed, rendered, and constructed the runway for Pennsylvania's largest annual fashion show- Presented design concepts and iterations to production department heads- Coordinated equipment rentals, scheduling, and accessibility with vendors and venue management- Hired and managed a team to develop projections and large staging elements for an immersive audience experience	

	Shirley Ryan AbilityLab - Center for Bionic Medicine Mechatronics Engineering Intern	Chicago, IL May 2023 - Aug 2023
	<ul style="list-style-type: none">- Developed a Python GUI for real-time prosthetic sensor visualization during physical therapy- Built and tested electrical components for ankle and knee prosthetics- Updated and maintained upper and lower limb prosthetic development kit	

Skills	Technical: Python, C++, C, Java, SystemVerilog, MATLAB, OpenCV, AutoCAD, SolidWorks, Database Management, Arduino, Raspberry Pi, Circuit & PCB Design, Soldering, HTML, CSS, React, Django, Git, AI
	Design and Fabrication: Graphic Design (Photoshop, Illustrator, Figma), Product Design, 3D Printing (FDM/SLA), Laser Cutting, Woodworking, Sewing, Computational Knitting, Embroidery
	Collaboration and Leadership: Project Management, Teaching, Organization, Communication, Public Speaking, Design, Content Writing, Technical Writing, Editing, Code Review

Projects	For a gallery of my recent projects, please visit maddiercb.com . My site is currently being updated, with more content coming soon.
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