Marc Dunand

Creative Technologist

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<u>Website</u>	<u>Portfolio</u>	LinkedIn	<u>GitHub</u>

Education

Carnegie Mellon University 2021-2025	Harvard Graduate School of Design 2025 – 2027
Bachelor of Computer Science and Arts	Master in Design Studies
University Honors	Concentration in Mediums
Final GPA: 3.64	GPA: Available December 2025

Recent Work

Collaborative Drawing Machine | Python, OpenCV, vSketch, Axidraw | January 2024 – May 2025 🗘

- Developed an interactive generative drawing machine that transforms drawn lines into fully-fledged landscapes with unique topology
 - Installed piece at Pittsburgh's Tomayko Gallery as part of the <u>REM</u> show; presented piece at <u>Meeting of the Minds</u> 2025

Lightsail | Laser, TouchDesigner, Galvanometer, Phosphorescent Fabric, Table Fan | September 2024 – November 2024 🔘

- · Designed and built an algorithmically controlled custom laser galvanometer from circuit components
- · Created an installation where the laser galvanometer projects onto glow in the dark fabric as it is blown around by a fan
- Presented piece at Pittsburgh art show Tech25 in 2024 and in 2025; gave a talk on the technical details of the piece

Scribbler | Python, vSketch, Axidraw | February 2024 – December 2024

- · Researched the consistent graphical elements and data encodings that emerge from written languages across cultures
- Built a machine that writes generative asemic (without meaning) script in realistically human handwriting external to human culture
- Featured in Lemon Publication #03 and The Squeeze Exhibition; created an educational video showcase with YouTuber PurpleMind

Professional Experience

Creative Technology Intern | Deeplocal | May 2025 – August 2025

- · Engineered installations at Deeplocal, a creative technology agency known for building innovative interactive experiences
- · Worked with creative freedom on client projects from day one, including projects for LEGO and Pinterest
- Traveled to project sites for installation, maintenance, and deinstallation, trusted as the only technical team-member on site

Skills: JavaScript, Node, Python, Computer Vision, Object Detection, Google Drive APIs, MAX (MSP)

Creative Software Researcher | Video and Media Design - CMU | May 2024 - May 2025

- · Hired by Prof. Shea to create an experimental mocap labspace, integrating Vive, Rokoko, and CyanPuppets mocap systems
- · Developed workflows in Unity, NDI, ReadyPlayerMe, and Mediawiki for live mocap VR and AR performances
- Presented my work and findings at <u>Meeting of the Minds</u> 2025

Skills: Unity, C#, Mocap Systems, NDI Tools, Animation, Rigging, and Skinning, Oculus, Vive, 3D Rendering, Scene Composition

Software Engineering Intern | Soapboxx | February 2023-September 2023

- Developed an extended backend for the Soapboxx website and connected it to APIs for image databases, GPT, and image GANs
- · Collaborated with Soapboxx and IB5K teams to integrate the completed project into the site using React

Skills: React, Node.js, Python, JavaScript, HTML, LLMs, GANs, Prompt Engineering, Databases, API Integration, Full-stack Development

Software Instructor | iD Tech | June 2022 – July 2022

- Designed custom lesson plans and taught groups of ten students ages 13-17 Unity development from beginner to advanced levels
- · Ported student projects to Oculus devices and integrated various control schemes.

Skills: Unity, C#, Oculus VR, Oculus AR, Education, Leadership, Communication

Data Science Intern | Amaral Lab, Northwestern University | March 2020 - August 2021

- Worked with grad and postdoc students researching microbial assemblies; created a bespoke computational model of the phenomenon
- · Developed responsive graphical representations of model behavior to improve accessibility of data and presented project results

Skills: Python, Matplotlib, Data Analysis, Computational Biology, Systems Modeling, Data Presentation and Communication