

Eleanor Mayes

Education

Master of Design

University of California
Berkeley
December 2022

Master of Science in Materials Science & Engineering

University of Minnesota
January 2021

Bachelor of Science in Chemistry

University of Chicago
June 2018

Skills

Adobe Creative Cloud
Blender
Casting & Mold Making
CNC Milling
Electronics & Circuitry
Figma Fusion 360
HTML/CSS
Laser Cutting LaTeX
Matlab Miro
Python 3D Printing
Rapid Prototyping
SolidWorks CAD
Solution Process Coating
Unity Woodworking

Honors & Awards

University of California Berkeley

ARCUS Social Justice Corps Fellowship

College of Environmental
Design 2021-2022

Social Justice & Practice Award

Master of Design 2022

Distinguished Scholar Award

Master of Design 2021-2022

About Me

Creative engineer & designer bringing a wealth of materials science knowledge to the aesthetics and intentionality of design. Passionate advocate of designing just and equitable futures through collaboration with disabled, BIPOC, and LGBTQ+ communities. Prototypes engineering based solutions for accessible & equitable design. ARCUS Social Justice Corps Fellow, Tinkerer and dismantler of things.

Experience

Research Assistant to Dr. Joshua Miele, MacArthur Fellow & Inventor

Berkeley, California May 2022 – Present

Design, prototype, and fabricate accessible technology for blind makers resulting in an array of tactile displays. Run monthly instructional workshops create and maintain website for the Blind Arduino Project featuring tutorials. Establish studio for the Center for Open-Source Accessibility.

Production Director | Website Developer | Transcription Manager

COVIDCalls Podcast, May 2021 – Present

Develop and produce over 400 podcast episodes covering the COVID-19 pandemic, with over 40,000 downloads. Supervise team of 20 transcribers. Manage and maintain all facets of podcast including archives, website, research, and co-hosting resulting in smooth & effective podcast workflow.

Disability Lab Graduate Researcher

University of California Berkeley, Oct 2021 – Dec 2022

Developed a toolkit to launch high school disability cultural clubs, resulting in more than 40 lessons designed to promote inclusion. Directed accessible trawling for marine plastic, including designing, testing, experimenting, and providing feedback resulting in adaptive net prototype.

Optoelectronics & Photonics Graduate Researcher

University of Minnesota, Nov 2018 – Jan 2021

Designed, simulated, and investigated the color science & fabrication of spectrally-selective mirrors resulting in higher efficiency photovoltaics for sustainable architecture.

Supramolecular Chemistry Lab Undergraduate Researcher

University of Chicago, Sept 2016 – May 2018

Synthesized and investigated structural and thermal property relationships of liquid crystal elastomers resulting in smart, self-healing, and responsive materials for fully flexible electronics.