

Priyanka Makin

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EDUCATION

2024 **MPS Interactive Telecommunications Program (ITP)**

Tisch School of the Arts, New York University | New York, NY

2022 **MFA Creative Technology Design**

College of Engineering, University of Colorado Boulder | Boulder, CO

* Completed 1 year of MFA while working, transferred to NYU

2019 **BS Electrical and Computer Engineering**

College of Engineering, University of Colorado Boulder | Boulder, CO

Minors: Computer Science and Technology, Arts, and Media

PROFESSIONAL EXPERIENCE

2023-Present **Co-Founder of Material Kitchen** (with Yeseul Song) | Brooklyn, NY

Created an online resource of sustainable materials for making. Tested biomaterial recipes, researched sustainability of materials, illustrated bioplastic recipes, created projects with biomaterials, recorded bioplastic cooking show, hosted a launch tea party, and created a website to share our resources.

2024 **Lead Camp Counselor**, ITP Camp | Brooklyn, NY

On a team facilitating a 4 week long “unconference” with 200+ attending campers and 190 workshop sessions. Managed a team of new camp counselors, answered technical questions, and designed a series of workshops. Organized orientation day, Show One Thing Show, and Show All Things Show.

2024 **Lead Producer of *Ctrl + Art + Delight***, NYC Resistor | Brooklyn, NY

Conceptualized a group art show of graduate thesis projects. Developed the show concept and open call for submissions. Coordinated with the venue to create and advertise the show, organize participating artists, installation of pieces, post-show clean up, and the execution of show day. 200+ guests were in attendance.

2023 **Creative Technology Researcher** for Yeseul Song, Brooklyn, NY

Researched different technical solutions for a “wireless sound object” and developed a prototype using a Teensy and Audio Shield.

2023 **Camp Counselor and Shop Staff**, ITP Camp | Brooklyn, NY

On a team to facilitate a 4 week long “unconference” with 220+ attending campers and 150+ workshop sessions. Lead shop safety trainings and helped answer campers fabrication questions (wood shop + electronics).

2022-23 **Studio Assistant**, [Jen Lewin Studio](#) | Brooklyn, NY

Helped test, clean, prep, and pack large LED installations for shipping and installation world-wide.

- 2019-23 **Engineer and Product Developer**, [SparkFun Electronics](#), Niwot, CO
Designed multiple SparkFun products, mostly for the Qwiic (sensors that communicate over I2C) and MicroMod (modular prototyping) brands in EAGLE. Wrote Arduino libraries in C++, MCU firmware, and Python packages for various sensors/products. Built printed circuit boards using a pick-and-place machine, tested and debugged prototypes. Wrote technical documentation, test plans, and blog post content.
- 2019-23 **Technical Consultant to local artists**, freelance, Denver, CO
Conceptualized, designed, and built custom electrical systems for movement, sound, and interaction for art installations. Clients include [Trey Duvall](#), Nikki Pike, and [Jaime Carrejo](#).
- 2018-19 **Electrical Engineering and Marketing Intern**, FIRST RF, Boulder, CO
Designed a kid-friendly RF teaching module that transmits and receives audio signals at 10GHz. Learned Python and designed various GUI's to facilitate antenna testing and data collection. Familiar with basic RF concepts, components, and signal analysis.
- 2018-19 **Power Electronics Engineer**, [Undergraduate Capstone](#), University of Colorado Boulder, Boulder, CO
Worked on a Capstone team to create a wireless charging station for the TI-RSLK educational robot kit and curriculum with autonomous return navigation.
- 2016-18 **Electrical Power Systems Engineer**, PolarCube, Colorado Space Grant Consortium, Boulder, CO
Experience with battery charging/discharging profiles, solar cell population and testing, max power point tracking, efficiency testing, board debugging, and embedded programming.

AWARDS, GRANTS, FELLOWSHIPS

- 2024 Sustainability Leadership Program, NYU Office of Sustainability, New York, NY
- 2023 Green Grant, NYU Office of Sustainability, New York, NY
ITP Recycled Plastics Fabrication Workflow (with Kay Wasil, Phil Caridi, Rob Ryan)
- 2022 Edie and Lew R Wasserman Scholarship

RESIDENCIES

- 2024 Toolmaker in Residence, [Signal Culture](#), Loveland, CO

TEACHING EXPERIENCE

- 2024 Graduate Teaching Assistant, *Senior Capstone* (prof. Allison Parrish)
Interactive Media Arts, New York University
- 2023 Graduate Teaching Assistant, *Useless Machines* (prof. Blair Simmons)
Interactive Media Arts, New York University
- 2023 Discussion Facilitator, *ITP Applications* (prof. Sarah Rothberg)
Interactive Telecommunications Program, New York University
- 2023 Graduate Teaching Assistant, *Code!* (prof. Dave Stein)
Interactive Media Arts, New York University

- 2023 Graduate Teaching Assistant, *Energy* (prof. Jeff Feddersen)
Interactive Media Arts, New York University
- 2022 Graduate Teaching Assistant, *Physical Computing* (prof. Yeseul Song)
Interactive Media Arts, New York University
- 2017 Learning Assistant, *Intro to Digital and Analog Electronics* (prof. Anthony McDougle)
Electrical, Computer, and Energy Engineering, University of Colorado Boulder

WORKSHOPS

- 2024 *Beep Beep Booper* (analog piano circuit with Bianca Gan, Gracy Welihan), [CCL](#) (highschool students), Brooklyn, NY
- 2024 *DIY Robots* (with Bianca Gan, Gracy Whelihan), [GSTEM](#) (highschool students), Brooklyn, NY
- 2024 *Let's eat (bio)plastic!*, ITP Camp, Brooklyn, NY
- 2024 *Collaborative Camp Mural* (with Elyana Javaheri), ITP Camp, Brooklyn, NY
- 2024 [Get Into the Depths of Depthkit](#) (with Cindy Hu, Elif Ergin), ITP Camp, Brooklyn, NY
- 2024 [Arduino for People Who Like to Blink](#) (with Jess Shen), Stupid Hackathon, Brooklyn, NY
- 2023 *Biomaterial Ideation Session* (with Yeseul Song), Material Kitchen, Brooklyn, NY
- 2023 [Dragtronics](#) (with Kay Wasil), Brooklyn, NY

GUEST CRITIC

- 2024 *Replasticing* (prof. Molly Ritmiller), New York University

ONLINE PUBLICATIONS

- A Weekend At The Open Hardware Summit*, SparkFun Blog. May 10, 2023 ([article](#))
- Makin' Art: Kinetic Column wasn't built in a day*, SparkFun Blog. May 10, 2022 ([article](#))
- Makin' Art: Nature Mobile*, SparkFun Blog. December 8, 2021 ([article](#))
- Makin' Art: "Convivial Machines" at the Museum of Boulder*, SparkFun Blog. November 23, 2021 ([article](#))
- Makin' Art: "Waiting" with Jaime Carrejo*, SparkFun Blog. July 6, 2021 ([article](#))
- Makin' Art: My Adventures with Trey Duvall*, SparkFun Blog. February 2, 2021 ([article](#))

GROUP EXHIBITIONS

- 2024 *Interactive Show: Third Space From the Sun*, NYC Resistor, Brooklyn, NY
- 2024 *ITP Spring Show*, New York University, Brooklyn, NY
- 2024 *Ctrl + Art + Delight*, NYC Resistor, Brooklyn, NY
- 2024 [1-800-I-WAS-SCAMMED.COM](#), Culturehub, New York, NY ([catalog](#))
- 2023 *ITP Winter Show*, New York University, Brooklyn, NY
- 2023 [*This Is Not A Drill*](#), New York University Bobst Library, New York, NY ([catalog](#))
- 2023 *ITP Spring Show*, New York University, Brooklyn, NY
- 2022 *ITP Winter Show*, New York University, Brooklyn, NY
- 2022 *ATLAS Expo*, University of Colorado Boulder, Boulder, CO
- 2021 [Convivial Machines](#), Museum of Boulder, Boulder, CO ([article](#))
- 2021 *Art for Action: MBodied Student Art Show*, The People's Building, Aurora, CO

CURATORIAL

2024 *Ctrl + Art + Delight*, NYC Resistor, Lead Curator and Producer

TALKS

2024 *Technology to Hack Embodiment*, Hackaday Supercon 2024

2024 *Priyanka's Body of Work*, ITP Thesis presentation ([video](#))

COLLABORATIVE PROJECTS

2024 ITP Yearbook (with Lily Crandall, Elif Ergin)

Helped conceptualize and design the ITP Yearbook in Figma, organized picture days, and ITP superlatives.

2023 [Stupid Hackathon](#) Co-Organizer (with Mat Olson, Anna Lin, Josh Zhong)

Facilitated a 2-day hackathon for terrible ideas, 50+ participants from the general public attended. Designed a mini-workshop series to help hackers kick-start their stupid projects. Organized closing ceremonies and prizes for stupidest hacks.

2023 Doodle Club Co-Founder (with César Loayza)

Created a fun, accepting, and creative space for the ITP community to gather to doodle and get creative juices flowing.

ILLUSTRATION PROJECTS

2023 Illustrator of [Socks](#) by Katherine Rinehart

2023 Illustration for Adjacent Issue 10: Ecoscope, "[Bug Square](#)" by Henry Haoyu Wang

2021 Illustrator of [Random Accident in Sector Noah 135/56](#) by AnnElise Makin