

# CATHERINE HEBSON

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## EDUCATION

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**Brown University, *Sc.B. Mechanical Engineering***

**Providence, RI | Class of 2017**

- 3.6 GPA, ABET Accredited
- Inducted into Sigma Xi: The Scientific Research Honor Society

## EXPERIENCE

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**Program Manager, *Footprint Project***

**Mars Hill, NC | 11. 2024- Present**

- Managed 12 community energy resilience hub projects across three Helene-impacted counties in Western North Carolina
- Began and manages Footprint's Individual & Family Assistance Program for people living without long-term utility access after Hurricane Helene
- Collaborated with two colleagues to create the WNC Solar Free Store
- Provides technical engineering expertise to the technical development of the Beehive Microgrid project

**Field Scientist, *ICECAPS Research Team***

**Boulder, CO & Greenland | 02. 2024- 05. 2024**

- Supported atmospheric climate scientists in 2024 field season as an engineer, fabricator, food planner, Wilderness First Responder, and general manual labor for instrumentation station installation
- Installed novel renewable energy system and autonomous weather station on the Greenland Ice Sheet, as part of a self-supported team of 5, living in tents several km from Raven Camp

**Cofounder, *South French Free Fridge***

**Asheville, NC | 04. 2022- Present**

- Co-founded, built, and continue to steward a highly-used community fridge and pantry for free food distribution 24/7 in the Southside neighborhood of Asheville
- Partners closely with Southside Community Farm to support network of four pantries and two fridges

**Mechanical Engineer, *Moog Music***

**Asheville, NC | 04. 2021- 02. 2023**

- Lead Mechanical Design Engineer for new flagship instrument, the Moog Muse
- Made the Moog Muse the most manufacturable instrument in Moog's history- throughput increased by 450% to 1400%, as compared to similar instruments

**Union Worker Organizer, *Moog Music & IBEW***

**Asheville, NC | 04. 2022- 02. 2023**

- Led, with several colleagues, an authorization card signing campaign to form a union at Moog Music
- Organized in-person and zoom events, Q & As, and info sessions with workers

**Engineer & U.S. Covid-19 Response Coordinator, *Field Ready***

**USA & Norway | 03. 2020- 03. 2021**

- Fabricated and field-tested insulation products made from waste plastic for refugee shelter winterization
- Assessed feasibility of locally manufacturing commonly needed aid items like tarpaulin and CGI in Haiti
- Created and managed a program to distribute 5,000 face shields to vulnerable people in the U.S. at the onset of COVID-19

**R & D Engineer, *Terumo BCT***

**Lakewood, CO | 09. 2017- 02. 2020**

- Developed, prototyped and built hardware and software for novel sensor on a medical device
- Named on four invention disclosures

## SKILLS

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- Rapid prototyping and fabrication across many materials, electrical wiring
- One-on-one organizing conversations, logistical organizing, managing competing priorities, media
- Data Analysis and Visualization, Microsoft Office Suite, Excel, 3D modelling, Basic programming
- Upper- Intermediate, Conversational Spanish
- Wilderness First Responder