

Freesoul 'Sol' El Shabazz-Thompson

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"ISO Research & Development Roles in Service, Experience, and Product Design"

Northwestern University, Evanston Illinois

McCormick School of Engineering | Segal Design Institute

BS Manufacturing and Design Engineering

Graduated September 2019

Experience (3+ years)

Research Scientist/Engineer with Oasis Farm and Fishery

October 2020 - Present

Research and Development for automated plant environment data collection system. Design of Experiments and analysis of in-house liquid fertilizer production methods and efficacy.

AI Trainer with Open AI [Freelance]

August 2020 - September 2020, Remote

Train AI systems to write summaries by reading, writing, comparing, and critiquing.

Intern: Phipps Conservatory

Summer 2020, Pittsburgh PA

Horticulture and botanic practice; maintained plants and designed displays. Designed and presented landscape architecture changes for water savings, user experience, and aesthetic evolution.

Artist Educator in Residence: CCEEE Pittsburgh Public Schools

March 2020, Pittsburgh PA [interrupted by Covid-19 Pandemic]

Mentored middle & high school students via collaborative visual arts.

Design Engineer with CattleTECH [Interdisciplinary Design Projects Capstone]

Winter 2018 - Summer 2019, Evanston IL & Sisaket Thailand

Research, design, and manufacture of hardware, wearable, and software solution increasing roadside visibility and enabling virtual containment of cattle for client: Raitong Organics Farm.

Admin & Design Aide with Segal Design Institute, Northwestern University

Fall 2019 - Summer 2019, Evanston IL

Graphic design, administrative tasks, and design & build projects for the department.

Engineering Intern with LTA Research and Exploration

Summer 2018, Mountain View CA

Research, development, design, rapid prototyping and manufacturing for lighter-than-air technology.

Compass Peer Mentor with Northwestern University Student Enrichment Services

Fall 2017 - Summer 2018, Evanston IL

Event / workshop planning, and public speaking; peer mentor to "pod" of four first year students.

Soft Skills

Conceptual Thinking
Socially Oriented
Growth Mindset
Holistic Design & Systems Thinking
Adaptable
Collaborator
Inter-cultural
Somatic Empath

Language

English
Chinese [Mandarin HSK2]
Ghanaian Fante [Beginner]

Processing

HTML & CSS
Matlab
Python
Git

Maker

Rapid Prototyping
3D Printing
Injection Molding
Machine Shop
CNC & Manual Milling
Sewing
Mechatronics

Programs

CAD + CAM: Solidworks, Siemens NX, Autodesk Inventor
Render: Keyshot 8, Inventor Studio, Blender [beginner]
Audio: Ableton Live 9 & 10, Audacity
2D: Adobe Photoshop & Illustrator, Figma
OSX & Windows Factory Apps

Awards and Support

Resnick Family Fund for CattleTECH Field Research in Thailand
Siemens NX Northwestern Design Competition
2016 IDeaL Education Foundation Scholarship