

Freesoul 'Sol' El Shabazz-Thompson

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"ISO Design Strategy Roles in Service, Experience, and Product Design Engineering."

Northwestern University, Evanston Illinois

McCormick School of Engineering | Segal Design Institute

BS Manufacturing and Design Engineering

Graduated September 2019

Experience (3+ years)

Design Strategy with Oasis Farm and Fishery

October 2020 - Present

Research and development for automated plant environment data collection and in-house fertilization production

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 and designed plants and 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 and development, design, and manufacture of hardware, wearable and software for visibility and 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 project for department events.

Engineering Intern with LTA Research and Exploration

Summer 2018, Mountain View CA

Research and 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 and 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