Faith Jones

faith.jones2.718@gmail.com ● (773) 677-4046 ● www.designedby.faith

Education

Massachusetts Institute of Technology May 2022

Bachelor of Science in Mechanical Engineering, Minor in Design

Coursework: Toy Product Design, Introduction to Design Computing, Mechanics and Materials I, Dynamics and Controls I, Thermal-Fluids Engineering I, Design and Manufacturing I & II, Advanced Product Design, Measurement and Instrumentation, Electronics for Mechanical Systems

Professional Experience

d'Arbeloff Lab-TeachBot June- August 2019

Undergraduate Researcher Massachusetts Institute of Technology

- Redesigned a projector table that works in tandem with Sawyer robot to make it smaller, more lightweight, and easier to transport, assemble, use for testing, then disassemble
- Managed and oversaw the construction of ten units of the table to be used in testing of the TeachBot
- Generated an instruction manual for the assembly of the table for other researchers to use
- Used Solidworks to create models and illustrations of apparatus

Project

Pi Pie Yo-Yo, *Design and Manufacturing II* Fall 2021

- Worked with a team of 4 other students to design pi symbol pie shaped yo-yo
- Designed parts in Fusion360, using them to create plans for molds to be 3D printed and machined
- Planned CAM tool paths to CNC aluminum blocks into appropriate injection mold
- Manufactured over 200 yo-yos utilizing injection molding and thermoforming

Solace, *Product Design Processes* Fall 2020

- Worked with a team of 15 students to produce Solace: a foldable life raft for individuals in flood prone regions to stay safe after a severe storm
- Generated a series of small scale prototypes using different adhesives and low surface energy plastics to determine appropriate materials
- Led industrial design sub team of 5 students where I generated instruction decals for boat, determined placement for safety symbols, and delegated sourcing for appreciate materials and assembly methods

Battle Boats, *Toy Product Design* Spring 2018

- Worked on a team of 6 students to design a RC Boat toy prototype that can shoot water as well as fill up with water, denoting a "sunk" ship
- Tested product with children to determine what styles and aesthetics they enjoyed
- Produced early foam core models of what form the boats would take
- Manufactured final toy using thermoformed plastics, laser cut wood, and epoxy for waterproofing

Leadership Experience

Co-Chair, *Black Women's Alliance* June 2018-June 2019

- Oversaw a board of 4 other students with my co-chair to run the Black Women's Alliance at MIT
- Planned and executed events throughout the semester including general body meetings, career panels, study groups, and a gala with over 100 attendees for the enrichment of black women on campus
- Fund raised over $8,000 from MIT Alumni and departments to run a two day retreat for 40 members

Skills

CAD Software: Autodesk Inventor, Fusion360, AutoCAD, Rhino, Solidworks

Design Programs: Adobe Illustrator and Photoshop

Power Tools: Mill, Lathe, CNC Mill, variety of hand/table top tools