



EXPERIENCE

CAFEX

mechanical engineering
present

- The only in-house mechanical engineer
- Designing and testing future iterations of the robotic cafe and peripherals
- Establishing internal mechanical engineering infrastructure
- Expanding in-house prototyping capabilities

BOOSTED

mechanical engineering
summer 2016

- Prototyped lightweight electric vehicles as part of the new product team
- Designed and fabricated electromechanical subassemblies
- Performed experiments with urban transport
- Researched emerging technologies

simplehuman

research and development
2014 - 2015

- Developed household products that improve daily tasks
- Created first-pass prototypes for proof of concept, which required teaching myself arduino and basic circuit design
- Performed market research via reverse engineering

PROJECTS

design for shamans

user experience design
spring 2017

My team of four interviewed and co-designed with urban shamanic healers to design a coffee shop/ shared communal healing space that is grounded in their values.

cnc egg decorator

mechanical engineering
fall 2016

Created a desktop 3-axis CNC machine capable of drawing vector shapes onto eggs. Fabricated with a combination of laser cutting and 3d printing.
poe.olin.edu/2016/Eggs

wooden hands

prototyping
2016

For a sculpture class at nearby Wellesley College, I built models of my hand in different poses using 2D contours. This involved 3D scanning my hand, slicing layers, and lasercutting,

folding kayak

prototyping
spring 2016

Designed and fabricated a folding kayak using only corrugated plastic, duct tape, blue tarp, scrap wood, and pvc.

play project

experience design
fall 2015

Collaborated with four other students to design a turtle-themed play experience for fourth grade students. We fabricated "shell backpacks" for playing bio-inspired games.

volcano robot

project management
2014 - 2015

Led a team of 19 students through a year-long robotics challenge. Created a volcano exploration device, along with industry standard documentation and trade show booth.

SKILLS

design

solidworks
photoshop
illustrator

prototyping

mill
router
3D printer
laser cutter
circuit design
soldering

code

python
arduino
matlab
html + css