Anna Lai

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EDUCATION

Stanford University B.S. + M.S. Mechanical Engineering
Sep 2014 - Jun 2020 (expected) / GPA: 3.8
Courses: Design & Manufacturing, Dynamics & Control Systems, Fluids, Heat Transfer, Linear Algebra, Intro to Chemical & Electrical Eng., Programing Abstractions, Solid Mechanics

Pratt Institute Architecture Intensive
Jul 2012 - Aug 2012

EXPERIENCE

Natron Energy Product Engineering Intern
Jun 2018 - Sep 2018 / Santa Clara, CA
Incoming intern developing sodium-ion battery technologies and products.

Schlumberger Mechanical Engineering Intern
Jun 2017 - Sep 2017 / Rosharon, TX
Designed concepts for a redundant hydraulic activation system for Sand Control Tools and Inflow Control Devices. Conducted risk/benefit analysis, FMEA, and modeled designs with PTC Creo.

ISEP Research Intern
Apr 2017 - Jun 2017 / Paris, France
Developed UX designs for a robotic device aiding secondary education in STEM. Prototyped designs for the robot chassis compatible with the BBC micro:bit. Conducted meetings in French with ISEP advisors.

Prakash Lab Undergraduate Researcher
Jun 2015 - Apr 2017 / Stanford, CA
Developed large-scale droplet deposition devices using machine shop tools to investigate lattice systems of vapor-mediated interactions between droplets. Fabricated microfluidic devices and aided in the design of optical setups using Arduinos.

Daxwell Product Design Intern
Jun 2012 - Jul 2013 / Houston, TX
Analyzed client data and conceptualized foil and cutlery package designs using Photoshop.

PROJECTS

S3
Product Realization Lab @ Stanford University
Designed and built a storage stool with rotating sheet metal formed drawers with custom bushings and welded frame.

Dancing Droplets
Prakash Lab @ Stanford University
Presented posters on self-assembling droplet lattices at the BioE REU Poster Fair & Bio-X Symposium. Collaborated on paper on long-range and confinement effects (under review.)

FILLanthropy
Design Challenge Finalist @ Stanford Center on Longevity
Worked on a team designing a bilingual web application for organizing volunteering events to encourage civic engagement.

SKILLS

CAD: Solidworks, PTC Creo, AutoCAD, ANSYS
Design: Illustrator, Photoshop, Painting, Machining, Welding, Casting, Sheet Metal, CNC
Programming: MATLAB, C++, HTML/CSS, Java, Python
Languages: Mandarin, French