

# LIANI LYE

lye.liani@gmail.com | (310) 527-1014

## WORK EXPERIENCE

### Product Manager / Core Team Member @ Code for America: Boston Brigade

Aug 2017 – current

*Focus on civic tech projects; work with senior members to shape organizational direction and culture.*

- Crafting complexity-appropriate solutions by collaborating with nonprofit and government clients
- Defining features and setting milestones to guide 30+ volunteer engineers, designers, and citizen activists
- Proposing, designing, and implementing strategy/ops initiatives, including: framework to support teams' alignment with mission; standardized onboarding and workflow processes; and switched to a more equitable food vendor
- Researching employee gift-matching programs, developed prospectus, and generated Boston-area fundraising leads

### Project Manager @ Design that Matters: Entrepreneurship & Design Capstone

Sept 2016 – June 2017

*10-month consulting capstone in team of eight. Led business, engineering, and design teams to transform client's mockup into robust proof-of-concept with market needs analysis. Product: newborn warmer complementing award-winning phototherapy device.*

- Balanced blue-sky ideas, medical need, & business strategy / manufacturing capabilities by defining project scope, requirements, and deliverables
- Conducted market research analysis, identified product needs, and checked product usability through data collected from two Vietnam trips to complement analysis in US
- Used price sensitivity analysis to identify price points based on use cases and market segments
- Performed regular quality reviews to ensure alignment with timeline and stakeholder needs

### Software Engineering / Product Owner Intern @ IVANI

Jan 2016 – Aug 2016

*8-month internship. R&D project to create test platform for dev team. Platform integrates 3<sup>rd</sup> party sensors to wirelessly locate reverse-beacon position and boosts company assets by ~\$300K. Algorithmic development in Python.*

- Patented Reverse-Beacon Indoor Positioning System Using Existing Detection Fields in team of two
- Designed, implemented, and optimized algorithms, and wrote firmware for sensor hardware
- Recommended Agile, code review, and documentation practices that were adopted by the rest of the development team

### Engineering Education Researcher @ Olin EASE Lab

May 2015 – Aug 2015

*4-month internship in generalist role for new lab.*

- Mentored middle-schoolers in electronic scooter accessory design, fabrication, and testing
- Created lasercut kits introducing children to prosthetics and rapid prototyping; showcased at Boston Children's Museum and TEDxBeaconStreet

## SOCIAL INITIATIVES

### Community Engagement

- Created & facilitated *Cultural Conversations*: student discussion series around race, ethnicity, and culture
- Co-led *EO Task Force*: translated Feb. 2017 federal executive orders into layman's terms for students
- Coordinated *Design Challenge*: annual student-run teamwork challenge for prospective admits

### Entrepreneurship and Social Ventures

- Launched cross-campus bootcamp: human-centered design meets Agile product / venture development.
- Board member of student-run group focused on entrepreneurship at Olin College

## SKILLS

**Design:** Framework generation, human-centered design, feature definition, interviewing, wireframes, Adobe & Google suite

**Analytical:** Quantitative and qualitative research, documentation, process tests, data review, project management, visualizations

**Communication:** Oral and written communication and presentation, client relations, facilitation of cross-functional teams

**Languages & Frameworks:** Python, Git, JavaScript, D3, HTML, CSS

## EDUCATION

### Olin College of Engineering: Dec 2018

BS General Engineering; GPA 3.37

Experience: Product development for underserved populations