

## GRACE AHN

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Los Angeles, CA

### EDUCATION

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#### MASSACHUSETTS INSTITUTE OF TECHNOLOGY

*School of Engineering & Sloan School of Management*

M.S., Engineering and Management

Cambridge, MA

2021 - 2023

#### OLIN COLLEGE OF ENGINEERING

B.S., Mechanical Engineering

Needham, MA

2012 - 2016

### EXPERIENCE

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#### NATIVE DESIGN

*Business and Strategy Manager, Life Science*

London / Remote

October 2023 – Present

- Led and implemented new client strategy which led to \$1.1M in potential revenue.
- Build firm's point of view on the future of the lab that champions user-centered solutions within lab spaces.
- Expand firm's Life Science portfolio and new business opportunities in genomics, liquid handling, point-of-care diagnostics and lab automation.

#### EMULATE INC

*Engineer III - Discovery Team R&D Lead*

Boston, MA

2016 – 2021

Served as product lead for two multimillion-dollar NCATS/CASIS grants in organ-chips-in-space microgravity research using Emulate's Organ-Chip platform. Completed missions include SpaceX CRS-16 in December 2018, SpaceX CRS-17 in May 2019, and SpaceX CRS-20 in March 2020.

##### *Product Management*

- Managed cross-functional team of 8 biologists and engineers allocated across two NIH grants.
- Collaborated with external groups in aerospace and manufacturing to develop payload features and debug hardware and software issues.
- Developed and managed aggressive development and verification schedule from concept to rocket launch
- Reported monthly experiment updates and data findings to grant executives.

##### *Individual Contribution*

- Developed microfluidics hardware and programmed experiment software to autonomously run bioengineering experiments for launch, travel, and station on the International Space Station.
- Led monthly Engineering Verification Tests in a BL2+ lab verifying nominal flow and pressure, experiment programming, sensing suite validation and bioengineering sterility.
- Responsible for making technical tradeoffs pertaining to biology requirements.

##### *Engineer I*

- Developed novel technologies to advance future Emulate products and platforms.
- Built fraction collector to automate biology experiments enabling higher throughput and sampling resolution.

#### WALT DISNEY IMAGINEERING

*Ride Mechanical Engineering Intern*

Glendale, CA

Summer 2015

- Responsible for mock ride test for upcoming Disney Tokyo E-Ticket attraction. Modeled and simulated ride vehicle motion for upcoming Tokyo Disney E-ticket attraction through prototype construction and guest experience analysis using on-board sensing suite.
- Coordinated with Creative and Ride department directors to meet design and technical specifications.

#### BARRETT TECHNOLOGY

*Mechanical Engineering Intern*

Boston, MA

Summer 2014

- Designed hand webbing to safely ensure patient's grip onto Barrett's rehabilitation robot during physical therapy.
- Explored material and design improvements for the BarrettHand robot to have an IP44 rating.

### SKILLS

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- Design Research – User Interviews • Sketch Models • Ideation Workshops • User Journeys and Workflows
- Technical – CAD (12 years) • Rapid Prototyping (10 years) • Microfluidics (4 years) • Python (3 years) • Embedded Systems (4 years) • BL2+ Lab (4.5 years)

### ADDITIONAL INFORMATION

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- Patent – Invented technique in biological sampling, media recirculation and pumping. [USPTO: 17/036652](https://www.uspto.gov/patent/publications/17/036652)
- Interests – Accessible design, disability studies and advocacy, indoor climbing