

ANANYA RAM

Rapid learner who thrives in ambiguity & fast-paced, collaborative environments.
Adept at empathy-driven engineering and cross-team leadership.

EXPERIENCE

Everyday Robots (Google [X]) Sept 2022 - Apr 2023
Reliability Engineer

- Most Everyday Robots employees impacted by layoffs Apr 2023
- Designed & built complex fixtures for cable lifetime testing
- Analyzed & presented testing results; recommended design improvements to increase robot arm lifetime
- Tested new robot actuators & analyzed backlash data to show improvement; approved the actuators for use.
- Created Reliability Test Plan for new robot computer, including shock/vibe and thermal testing
- Collaborated cross-functionally to test assumptions and communicated results with key stakeholders

Everyday Robots (Google [X]), May 2021 - Aug 2021
Robot Reliability & Fleet Health; Intern

- Quantified robot health across hundreds of robots through logged data, using gear backlash as a metric
- Created tool with Python in Colab to monitor failure metrics over time for robotic fleet, facilitating failure analysis & preventative maintenance

Medical Device Development, Jun 2019 – Jan 2020
Engineer & Experimental Scientist

- Designed cadaver test fixtures using Onshape/SolidWorks
- Fabricated test fixtures on CNC for MTS actuator
- Co-wrote 5 distinct technical protocols on knee biomechanics
- Designed experimental procedure for cadaver knees with 3DI
- Analyzed the knee biomechanics data with Matlab and ImageJ

The Taylor Collaboration, July 2019 – Sept 2019
Suture Improvement Researcher; Intern

- Performed static and fatigue experiments on bovine rotator cuffs for a UCSF-affiliated orthopedic research lab

Automated Systems and Robotics Lab, May 2020 - Aug 2020
Search & Rescue Team Researcher

- Employed Matlab to model probabilistic human search-and-rescue processes, incorporating psychometrics and path-planning
- Used object-detection probability to inform research into human-robot collaborative teams

EDUCATION

Tufts University
BS Mechanical Engineering; May 2022
GPA 3.65 (Dean's List, All Semesters)

FURTHER EXPERIENCE

Design Thinking Institute, 2012 – 2019
Coach & Visual Thinking Educator

- Coached groups of 10 educators through the Design Thinking process each summer

Ascend International, Summer 2020
PD Organizer, Teacher, & Co-Lead

- Organized, taught, and co-lead a conference for educators at Ascend International School in Mumbai, India.

RELEVANT WORK

Rumi, 2020
• SEL app selected by LEGO Ventures for mentorship

The Orion Wallet, 2016-2017
• Wallet for blind user using UV light

Glowings 2013 & 2020
• Laser-cut cranes with LED wings

SKILLS

Coding: Python, MatLab, LabView, R
Software: SolidWorks, Onshape, Kicad, COMSOL Multiphysics, Fusion360, ImageJ, Illustrator, Autodesk Inventor
Fabrication: CNC milling, laser-cutting, TIG welding, 3D printing, water jet
Other: ENA Network Analyzer, Instron load cells, Optotrak, Leica Microscope, graphic design, visual note-taking, user research, Design Thinking, visual thinking, cross-team collaboration, event organization, leadership, education

✉ ananyaram6@gmail.com

☎ (650)-704-7230

🌐 www.ananyaram.com