Sign in!

Jr. BME

Transfer/Alumni Panel

By BMES at UCI

Pathways in College

Transfer

- Take community college classes for 2-3 years, fill out transfer application to university (2-3 more years)
  - Can reach dream school
- Saves a lot of money!
- TAG program for most UCs
- Time to decide your major
- May take longer to graduate

4-Year

- Apply in the beginning of senior year of high school
- Jump right into the program
- Getting started on extra-curricular activities early
- More close housing options
- Faster pace in classes
- 4-year scholarships are available

Graduate School

Masters

Length: Varies on research topic/project

Goal: Prepare for academia or industry with a higher degree

PhD

Length: Varies on research topic/project

Goal: Prepare for academia or industry with a higher degree

MD

Length: 4-years + post school training (4-8 yr)

Goal: Prepare to enter the healthcare industry as a physician
UCI offers BME: Premed

Future Pathways

Industry

01 **Biomedical Engineer:**
Engineer who designs, manufactures, tests, and markets products (e.g. medical devices)

02 **R&D Engineer:**
“Research and Development”; Engineer who develops improvements/solutions for a company’s products

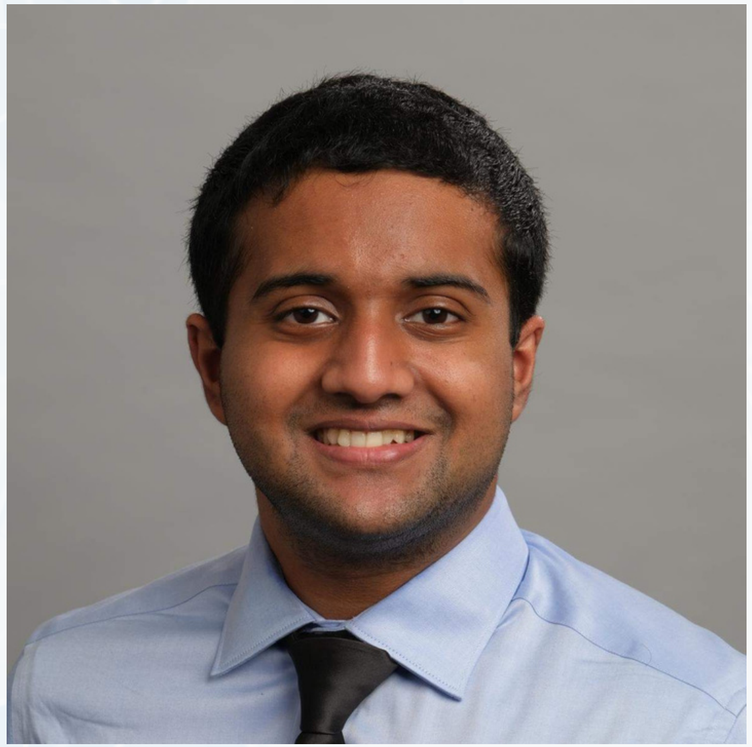
03 **Quality Engineer:**
Engineer who ensures the quality of the manufacturer’s products.

04 **Manufacturing Engineer:**
Develops and evaluates manufacturing processes by studying product requirements and researching testing methods.

Panelist Introductions

Panelist

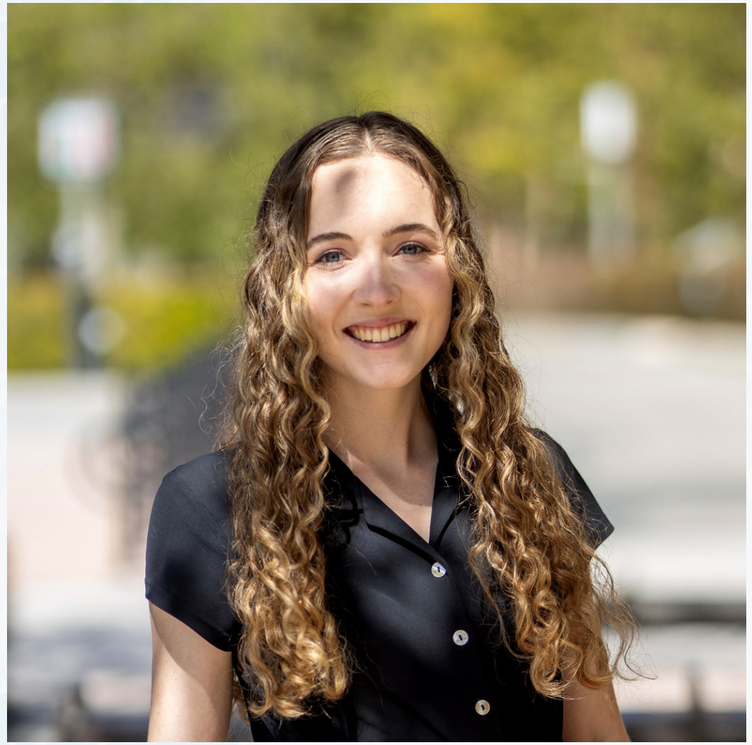
Kamalesh Ananthakrishnan



- UCI BME Class of 2022
- **Job/Internship History:**
  - *Current Job:* Project Engineer at Phillips-Medisize
  - *Previous Roles:* Rotational Program Engineer at Phillips-Medisize, R&D Engineering Intern at Alcon
- **Research at UCI**:
  - Dr. King's Lab (Sutures & Sensors)
  - Dr. Tang's Lab (Ultrasound Imaging) System Development
- 4-year University Student

Panelist

Lily McGrale



- UCI BME Class of 2022
- **Job/Internship History:**
  - *Current Role:* R&D Engineer II / R&D Rotation Engineer at Medtronic
  - *Past roles:* R&D Engineering Co-op at Medtronic, R&D Engineering Intern at Medtronic
- **Research at UCI:**
  - Dr. King's Lab: Surgical Compression Sutures for Maternal Health Applications
  - Dr. Lee's BioMiNT Lab: Microfluidic Devices
- 4-year University Student

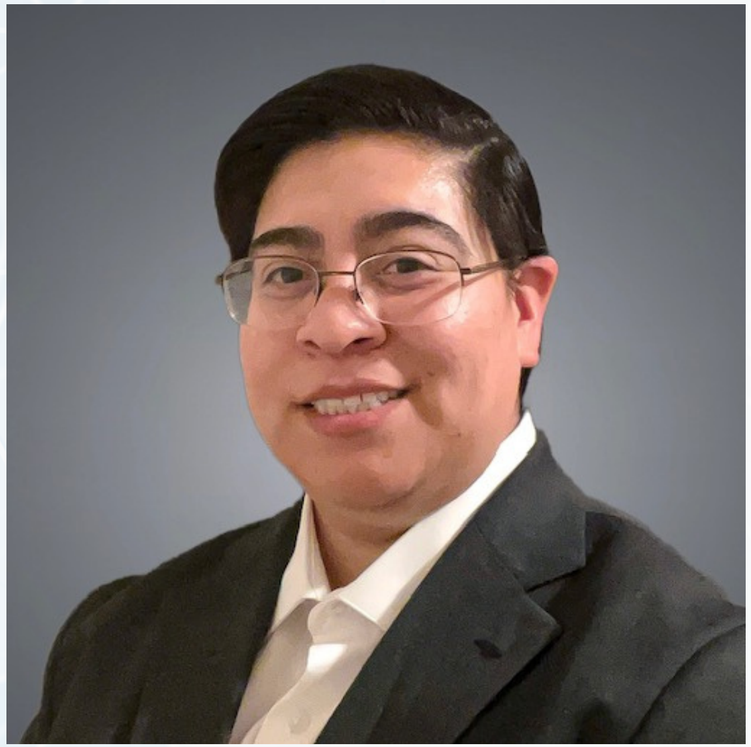
Panelist

Joseph Huang

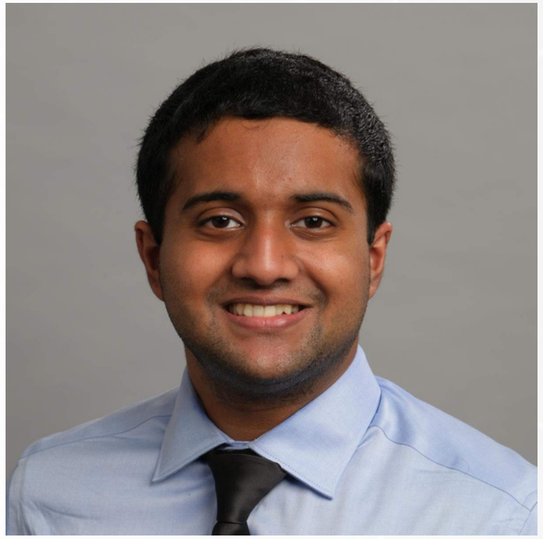
- UCI BME Class of 2023
- **Research at UCI:**
  - Additive Manufacturing Research with Alcon Inc.
- Transfer Student!

Panelist

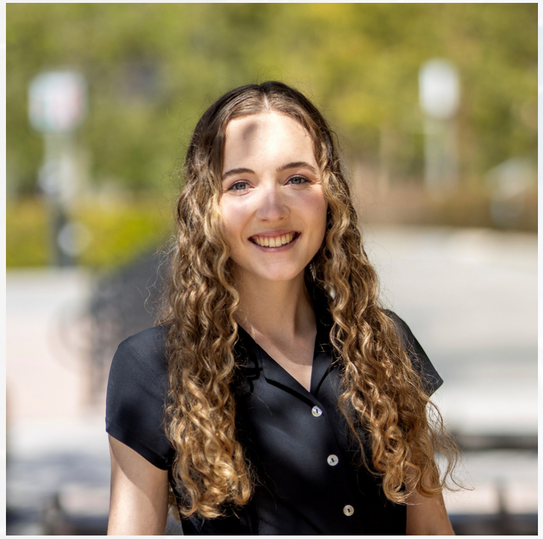
Sam Salas



- UCI BME Class of 2024
- **Job/Internship History:**
  - Signal Support System Specialist (Army)
  - Field Service Engineer II (ABBTECH)
  - Cyber Security Analyst (ABBTECH),
  - Security (Disney)
- **Research at UCI:** Fetal Blood Sampling Device under Dr. King
- Transfer Student!

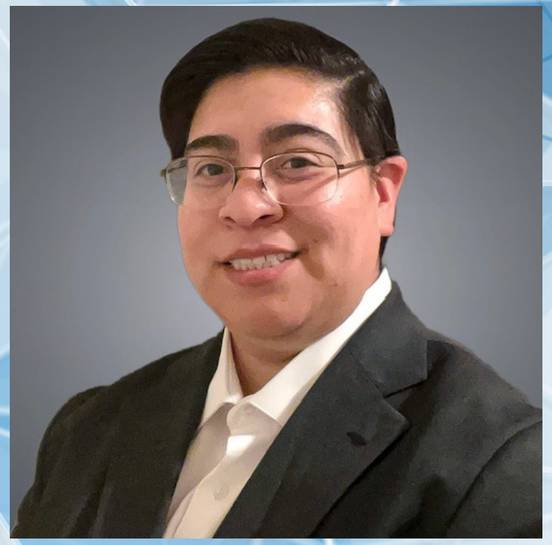


Kamalesh Ananthakrishnan



Lily McGrale

Joseph Huang



Sam Salas

Group Project Reveal!

Group Project

Medical Device Design

Design a novel innovation to address an unmet need for medical professionals and/or patients struggling with a medical condition. You have the freedom to choose the issue you address, but your product has to be unique to those already available.

Final Presentation: TBA (Sometime in April)

Group Project

What you need

- Group Formation (**Due 2/10 @ 11:59pm**): Form a group of 4-6 people, and email **bmes@uci.edu** with your group member's names and emails.
- Proposal (**Due 2/24 @ 11:59pm**): Come up with an issue to solve and a preliminary idea for your solution.
- Project Progress Check-ins (**TBA**)
- Proof of Concept (**April**): Create a presentation on your solution, and a demonstration using one of the skills we introduced (Arduino, Programming, and/or ONSHAPE)
- HAVE FUN!!