

Srivathsan Kalyan

Baltimore, MD

Education

Johns Hopkins University

PhD student in Mechanical Engineering

Focus in BioMechanics

University of California, San Diego | Class of 2017

B.S. NanoEngineering

Focus in Chemical Engineering

Awards: Finalist in Lab2Moon International Competition, Provost Honors

Experience

Graduate Student- Johns Hopkins University Baltimore, MD, September 2017-Present

- Started the Mechanical Engineering PhD Program in Fall, 2017
- Working under Dr. Soojung “Claire” Hur in the Microfluidic Biophysics Laboratory at JHU

Project Lead- Team Original Gravity San Diego, CA, October 2016-December 2017

- Led a 10 member team in an international competition to send an experiment to the moon
- Proposed an experiment to study yeast on the moon through the fermentation of beer
- Used CAD software and 3D printers to prototype; applied engineering and design skills to successfully complete prototype design and fabrication
- Applied leadership and management skills in a practical setting, and produced a deliverable for a client
- Found sponsorship and funding by leveraging social media publicity and live interviews
- Project launch on Synergy Moon Lunar Lander, Dec 2017

Project Lead- UCSD SCSE San Diego, CA, October 2016-April 2017

- The team leader for a water filtration project with the Society of Civil and Structural Engineers
- Recruited my own team, found a faculty mentor, and competing in the regional competition

R & D Intern- Abbott Labs Carlsbad, CA, June 2016- September 2016

- Research Assistant for group working on handheld microfluidics diagnostic device
- Worked on issues relating to bubbles in microfluidic flow fields and sample prep for the device
- Practical knowledge of processes such as PCR, and lysing, and trained to work with biological agents

General Chemistry Tutor | UCSD San Diego, CA, October 2015-June 2016

- Discussion Leader for study group of freshman in the General Chemistry series
- Worked with students in the bottom 20% of the class to help and encourage them to excel

Research Assistant | UCSD Labs San Diego, CA, October 2015-Present

- Working on stretchable and wearable electronics and microbiofuel cells at the Xu Research Group
 - Gained a working knowledge of these processes: copper etching, spin coating, and lithography techniques
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Other relevant skills and activities

COMSOL Multiphysics, Arduino, Solidworks, Python, Matlab, Adobe Suite Design, Microsoft Office, Fluent in Tamil, proficient in Spanish, German

Enjoy playing tennis and water polo, as well as going climbing, hiking, surfing, and kayaking