

Charitha Kaki

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Professional Experience

June 2019 - August 2019

COSMOS at the University of California, Santa Cruz

- Worked with various lab apparatus in the formation of multiple types of Nanoparticles such as Cadmium Selenide Nanocrystals and Graphene Quantum Dots
- Collaborated with a team to analyze and present the conclusions of the pyrolyzation of Citric Acid at a research fair with over 50 teams

Projects

Analysis of Silicon Wafer Recycling Options

- Designed options for the recycling of spent electronic silicon wafers through the utilization of mechanical and chemical means
- Combed through literature in order to assess the ingenuity of designs of proposed designs
- Performed economic analyses to determine the best option that incurred the highest ROI of an estimated 105%

Design of a Water Purification Process

- Designed a purification process to eliminate contaminants through equilibrium techniques to ensure the greatest possible purity

Leadership Experience

September 2020 -Present

Biofuels Technology Club - Logistics Team

- Student-led organization working to take the campus's waste cooking oil and convert it to biodiesel for the campus to utilize again
- Working and coordinating with 5+ external companies to develop waste management program for BTC

September 2020 -Present

American Institute of Chemical Engineers - Outreach Team

- Professional Organization for Undergraduate Chemical Engineers
- Currently working in tandem with 2 other students to establish a mentorship program between 7 local high schools and UC Berkeley students with a participant count of 36 people

August 2017 - June 2020

Wrestling Team Manager and Statistician

- Managed the logistical issues for the wrestling team
- Organized 70+ volunteers and technological affairs for a 50-team tournament

Education

University of California, Berkeley

B.S. in Chemical and Biomolecular

Engineering | GPA : 3.55

Expected Graduation Date: May 2024

Relevant Coursework:

- Introduction to Chemical Engineering Design
- Properties of Materials

Skills

Knowledge of Various Coding Languages

- C#
- Java

Wet Skills

- Titration
- Pipetting
- AFM Analysis
- Presenting of Final Conclusions

Soft Skills

- Team Player
- Determined Worker
- Growth Mindset
- Organization & Time Management
- Problem Solving
- Data Analysis

Personal

Winemaking Embroidery