

Alhad Deshpande

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EDUCATION

University of California, Berkeley

Pursuing a Ph.D. in Chemical Engineering

Berkeley, CA

August 2020 – Present

- **Awards:** Chancellor's Fellowship

University of California, Los Angeles

Bachelor of Science in Chemical Engineering, Summa Cum Laude

Los Angeles, CA

September 2014 – June 2018

- **GPA:** 3.94
- **Awards:** Dean's Honors List - Fall 2014, Winter 2015, Fall 2016, Winter 2017, Spring 2017, Fall 2017.

TECHNICAL EXPERIENCE

Beyond Meat

Process Development Engineer II

Research Associate

El Segundo, CA

September 2019 – August 2020

September 2018 – September 2019

- Successfully commercialized novel texturized plant protein products by developing pilot prototypes, leading production trials, and creating process specifications for QSR clients such as McDonalds CA, Starbucks CA, Dunkin', and CKE.
- Optimized the forming mechanism of molded products to tighten specifications and decrease process variability.
- Assisted in the transition from batch to continuous processing methods to improve production efficiency and throughput.

UCLA Polymer and Separations Lab

Undergraduate Researcher

Los Angeles, CA

October 2017 – June 2018

- Assisted in the installation of components to the reverse osmosis (RO) system, prepared salt solutions for RO experiments, performed everyday laboratory tasks and upkeep.
- Measured induction time for mineral scaling in response to operational modes of a RO membrane process.
- Quantitatively analyzed crystal growth on membrane surfaces to identify and mitigate causes of mineral scaling.
- Mathematically modeled membrane performance and salt precipitation, and compared to experimental results.

Bloom Energy

Reliability Analysis Engineering Intern

Sunnyvale, CA

June 2017 – September 2017

- Developed a MATLAB code to optimize the redeploy of degrading fuel cells to significantly reduce expenses.
- Integrated fuel cell life curves, failure modes and remedial options to establish a Monte Carlo model for the cost-effective proactive repair of fuel cells.
- Jointly worked with the quality and product management teams to incorporate generational reliability improvements for Bloom Energy fuel cells.

LEADERSHIP EXPERIENCE

UCLA Henry Samueli School of Engineering and Applied Science

Engineering Ambassador

Los Angeles, CA

September 2016 – June 2018

- Conducted tours of the engineering school and acted as a student liaison for the School of Engineering.

UCLA New Student & Transition Programs

New Student Advisor

Los Angeles, CA

April 2015 – September 2016

- Academically counseled groups of incoming students to UCLA, provided class recommendations to students and assisted them with class enrollment
- Conducted campus tours, and planned and presented workshops to address new students' needs and interests.
- Worked as a mentor for the New Student Mentoring Network during the academic year to ease students' transition to a university lifestyle.

SKILLS

Microsoft Office, Mac OSX, Windows OS, MATLAB, PRO/II, Design of Experiments (DOE), Failure Modes and Effects Analysis (FMEA), JMP, Monte Carlo Analysis, Process Simulation (PFD's), Food Processing.