**Education:**

University of California, Los Angeles Class of 2015

* B.S. Bioengineering
* Minor in Biomedical Research
* Cumulative GPA (4.0 scale): 3.7
* Relevant Coursework:
  + Thermodynamics
  + Biomedical Transducers (MRI, CAT, PET, Ultrasound, ECG)
  + Biotransport and Bioreaction Processes
  + Principles of Biocompatibility
  + Electrical Circuits
  + Systems and Signals
  + C++
  + Multivariable and Differential Calculus

Monta Vista High School Class of 2011

* Cumulative GPA (4.0 scale): 3.9

**Research Experience:**

Aydogan Ozcan Research Lab 10/2014

UCLA Department of Electrical Engineering

* Adapting a high-throughput lensfree 3D tracking system to study the dynamic behavior of microswimmers.

Harley Kornblum/Timothy Deming Research Labs 9/2012 – 7/2014

UCLA Department of Molecular and Medical Pharmacology

UCLA Department of Bioengineering

* Developed a novel diblock copolypeptide hydrogel implant to better deliver chemotherapy drugs to glioblastoma tumors in the brain.
  + Conducted in vitro experiments to test the ability of the gel to deliver a lethal dose of paclitaxel to suspended cancer cells.
  + Tested the gel’s efficacy in vivo with immune-deficient mice.
* Worked towards optimizing gel characteristics (viscosity, chemical composition) to maximize delivery capability.

Waran Research Foundation, Chennai, India 7/2012 – 9/2012

* Created a C++ model relating the intracellular energetics of neural progenitor cells to their membrane potential.
* Integrated this model with a larger brain model that captured synapse behavior and neuron-to-neuron communication.

**Professional Skills:**

Research Techniques

* Mouse Handling and Surgery
* Cell Culture
* H&E Staining
* Antibody Staining
* Colorimetric Assays (MTS, MTT)
* Fluorescence Microscopy

Programming and Other

* C++
* JavaScript
* Arduino IDE
* Microsoft Tools (Word, PowerPoint, Excel)

**Leadership Activities:**

President 3/2014 – Present

International Society of Pharmaceutical Engineering, UCLA Chapter

* ISPE is a national organization that connects members of the pharmaceutical and biotechnology industries and works to build solutions in the development of biological medicine.
* As president of the UCLA chapter, I manage a team of undergraduate officers and liaison with industry professionals to host events for students interested in biotechnology and pharmaceutical career opportunities.
* Events include company infosessions and fairs, with collaborators from Genentech, Baxter, Teva Pharmaceuticals, Medtronic, and PSC Biotech.
* Collaborated with the UCLA Business of Science Center and the Center for Advanced Surgical Interventional Technology to organize the 2014 Inventathon, a 24-hour competition where undergraduate and graduate student teams work with industry professionals to develop solutions to unmet medical needs (uclaideas.com).
  + Involved in sponsorship, logistics, and promotion for the event.

Student Advising Chair 1/2013 – 3/2014

International Society of Pharmaceutical Engineering, UCLA Chapter

* Organized research fairs and poster sessions as a platform for undergraduates looking for research opportunities to interact with graduate students looking for helpers for their projects.
* Hosted résumé and test prep workshops with Kaplan Test Prep to inform and better prepare students for graduate school.

Managing Editor of Research 1/2013 – 6/2014

UCLA Undergraduate Science Journal

* Oversaw the critical review of scientific research papers by staff and worked with authors to improve their papers for publication.

**Mentorship Activities:**

Engineering Advisor 9/2012 – Present

UCLA Engineering Office of Academic and Student Affairs

* Provide academic and college lifestyle counsel to incoming bioengineering students to ease the transition from high school to college.

Tutor 10/2014 – Present

UCLA Tau Beta Pi

* Tutor engineers in physics (mechanics, optics, electrodynamics, magnetism), life sciences (physiology, molecular biology), and electrical circuits.

**Presentations:**

Ramesh, V*.* “Developing a Novel Way to Deliver Chemotherapy to Brain Tumors.” UCLA Summer Programs for Undergraduate Research Poster Session, Los Angeles, CA. August 2013.

Ramesh, V*.* “Sustained local delivery of the chemotherapeutic taxol to treat glioblastoma via diblock copolypeptide hydrogels.” UCLA Science Poster Day, Los Angeles, CA. May 2014.

**Awards and Honors:**

Dean’s Honors List Fall 2013, Spring 2014

UCLA Henry Samueli School of Engineering and Applied Sciences

* Earned for obtaining a 3.7 or greater GPA per quarter with at least 15 units of coursework.

Biomedical Research Summer Scholarship 6/2013

UCLA Minor in Biomedical Research

* Scholarship awarded to 5 students of the Biomedical Research Minor for excellence in academics and research.
* 10 weeks of funded research ($3000) over the summer, culminating in a poster presentation at the UCLA Summer Programs for Undergraduate Research Poster Session.

Vice Provost Award

UCLA College of Letters and Sciences 6/2013, 6/2014

* Awarded for contributions to volumes 26 and 27 of the Undergraduate Science Journal.

Helga K. & Walter Oppenheimer Endowed Fund 8/2013

UCLA Undergraduate Research Center

* Selective scholarship awarded for a strong commitment to an independent research project.
* $3000 funded research over the course of an academic year, requiring participation at UCLA’s Science Poster Day and the submission of a thesis paper.

Boyer Award 8/2014

UCLA Undergraduate Research Center

* $5000 funded research over the course of an academic year.

Tau Beta Pi Membership 10/2014

Tau Beta Pi – CA Epsilon

* Awarded for academic achievement and exemplary character.
  + Top 1/5 of engineering seniors at UCLA.