

ROHAN NADKARNI

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Date

Education:

University of California, Los Angeles Sept 2013-present

- Department of Bioengineering, GPA 3.668, Graduating Fall 2016
- Courses completed: Bioengineering Seminar (BE 10), Physics (PHYS 1A-C), Inorganic & Organic Chemistry (CHEM 20B, 20L, 30A-B, 30AL) Introduction to C++ (CS 31), Multivariable Calculus (MATH 32A-B), Linear Algebra (MATH 33A), Differential Equations (MATH 33B), Life Sciences (LS 2-3, 23L), Bioengineering Fundamentals (BE 100), Biocompatibility (BE 176), Biotransport & Bioreaction (BE 110), Bioengineering Lab (BE 167L), Systems & Signals (EE 102), Electrical and Electronic Circuits (EE 100)
- Currently taking: Engineering Principles for Drug Delivery (BE C101), Molecular Biotechnology for Engineers (BE CM145), Bioengineering Capstone Design I (BE 177A)

Monta Vista High School, Cupertino, CA: GPA 3.917 unweighted (top 10%) Aug 2009-June 2013

Foothill College: Took Java programming class Jan 2013-Mar 2013

Skills:

- Strong math and science skills
- Knowledge of basic laboratory equipment and skills, including techniques such as cell passaging and microscopy
- Knowledge of programming in Java, C++, and MATLAB
- Comfortable with use of Mac OS X and Windows operating systems

Experience:

Ozcan Research Lab, University of California, Los Angeles Sept 2014-present

- Fabricated microfluidic devices using PDMS
- Learned how to write simulations, image processing algorithms, and parasite detection code on MATLAB
- Used application LabView to obtain experimental data
- Collaborated with undergraduate and graduate students to write code and set up experiment

- Discussed progress and ideas in weekly presentations

Bioengineering 167 Lab, University of California, Los Angeles

Mar 2015-Jun 2015

- Cultured and passaged cells
- Learned how to use hemacytometer and fluorescent microscope
- Performed bioconjugation and microcontact printing experiments
- Evaluated cell adhesion to well based on plasma treatment time of elastomeric stamp in independent project

General Chemistry Labs, University of California, Los Angeles

Jan 2014-Dec 2014

- Performed spectrophotometry, titration, recrystallization, and various separation techniques
- Learned how to interpret IR, NMR, and mass spectra

Life Sciences Lab, University of California, Los Angeles

Jan 2015-Mar 2015

- Performed gel electrophoresis, bacterial culture, PCR, dissection, histology, and DNA sequence alignment with BLAST

Awards, Honors & Professional Memberships:

- Member of Alpha Lambda Delta and Phi Eta Sigma Honor Societies Mar 2014-present
- Engineers Without Borders-wrote instructions to build school in Nicaragua Feb 2014-June 2014
- Involved in Biomedical Engineering Society Sept 2013-present
- Shotokan Karate: 1st degree black belt Aug 2013
- Taught karate class for lower belt-level students May 2011-June 2013
- National Merit Finalist Nov 2012
- AP scholar with honors June 2012, June 2013