Hardik Patel

Education:

University of California, Los Angeles Class of 2015

- Department of Electrical Engineering
- Major in Electrical Engineering with a focus on Computer Engineering
- Technical Breadth in Computational Genomics

Francisco Bravo Medical Magnet High School Class of 2010

Experience:

Ozcan Research Lab, University of California, Los Angeles 8/2014 - present

- Working to develop an underwater microscopic system to detect levels of specific algae that release neurotoxins into the environment.

Crump Institute of Molecular Imagine, University of California, Los Angeles

6/2013 - 8/2014

- This group is working to understand cancer signaling and metabolism from a systems view.
- More specifically, I receive data from proteonomic/metabolome wide assays and apply statistical algorithms to understand cancer signaling from a systems point of view, and model aberrant cancer cell function

Doheny Eye Institute, University of Southern California 6/2009 - 9/2010

- Researched alongside Dr. James Weiland on the retinal test bed project that pursues to engineer an artificial retina for those patients who suffer from age related macular degeneration or retinitis pigmentosa
- In particular I studied the power dissipation of the micro-processor if it were to be moved inside the vitreous of the human eye.

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Awards, Honors & Professional Memberships:

EE3 Class Project of the Quarter — Fall, 2013

- My group and I designed a autonomous obstacle avoiding robot with an onboard navigation system.

California State Science Fair, 3rd Place Statewide — 2010

- Project titled, Thermal Effects of Bioimplants, studies the power dissipation and heat distribution of micro-processors inside the cavity of the human eyes.

IEEE, Member — 2012- present

CityLab, Director of Education — 2013 - present

- Student run organization that seeks to increase science self-efficacy amongst at risk Los Angeles high school students.

Professional Skills:

C++ / C, Java, Android, Python, Perl, CSS/HTML, Ruby

3 years of experience with MATLAB and R

1 year of experience with Arduino microprocessor and additional add-ons (ex. XBee)

Microsoft Office