

Ryan Y. Louie

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Education

- University of Southern California - Major GPA 3.87
 - 3rd year, Majoring in Electrical Engineering

Qualification Summary

- Excellent communication skills, works well in groups and independently
- Experience with JAVA, Matlab, C++, Verilog, LabVIEW, MIPS, HTML, PHP, and Visual Basic
- Experience in soldering, manipulating electronic bread boards, and digital design
- Experience in digital design using Xilinx's Spartan-6 FPGA board

Experience

University of Southern California, Summer 2015 – Current

- Assist Dr. Brent Liu and Dr. Xuejun Zhang in their research on tumor detection in CT scans for the purpose of assembling a 3D image of the tumor
- Responsible for creating Visual Basic programs to process and analyze clinical imaging data
- Used Visual Basic to manipulate and filter various elements of CT imaging data as well as to create a user interface
- Presented speech and poster at SPIE Medical Imaging conference in San Diego

University of Southern California, Spring 2014 – Summer 2015

- Assist Dr. Ellis Meng in her research on implantable drug delivery devices that dispense drugs to targeted locations inside the patient's body
- Responsible for bench top testing of the drug delivery device, particularly the recombination rate inside the catheter and the power output within an electromagnetic field
- Created a LabVIEW program that allows the drug delivery device to connect to other electronics via Bluetooth

University of California, Berkeley, Summer 2013

- Assisted Dr. Kent Daane in his research on sustainable farming through biological control
- Responsible for keeping the lab clean as well as maintaining the health of specimens under study

Extracurricular Activities

Alpha Phi Omega - Webmaster

- National co-ed service fraternity focusing on leadership through service
- Maintained website and updated various database information about members
- Changed the way vice presidents create events in order to increase attendance accountability
- 50+ hours volunteered mentoring children at Jordan Downs Housing Project in Compton

Joint Educational Project

- Tutored math to local students at Richard Merkins Middle School

Lucile Packard Children's Hospital at Stanford

- Assisted the hospital staff by organizing activities in the Forever Young Zone

Kennedy Middle School Volleyball Coach

- Planned and scheduled practices
- Coached three 12-member teams to league championships over 3 year period

Awards

Presidential Service Award

- Volunteered 100+ hours at certified organizations