Kyle M. Liang

Fremont, CA 94539	kyleliangus@gmail.com	C: (510) 378-4961
University of California, Los Angeles		2015 to 2019
BS / Computer Science and Engineering		GPA: 4.00

Work Experience

Open Source Software Development, Los Angeles　　　　　　　**2016 to Present**

Software Developer (C)

Collaborating with Professor Paul Eggert on GNU utilities and coreutils

- Revised and debugged an implementation of multithreaded grep
- Examined CPU and memory usage of multithreaded grep through gperftools

Research Experience

Ozcan Research Group, Los Angeles　　　　　　　**2015 to Present**

Lab Mentor/Undergraduate Researcher (C++,Qt,Python,Matlab,Android)

Nano- and Bio-photonic research on creation of portable and economical optical devices on phones

- Recruited, established, and led undergraduate GUI/Mobile development and server management teams
- Updated RESTful server to multithread client requests for data analysis of Giardia samples
- Image registration of various pictures of Giardia and Sickle cell samples

Neurovascular Imaging Laboratory, La Jolla　　　　　　　**2013 to 2014**

High School Researcher/Intern (Matlab)

High power microscopy imaging of the brain

- Began research project on automatic 3D image segmentation of neurons on depth-varying image stack
- Constructed GUI to extrapolate calcium levels over time of segments of a line scan
- Created GUI to measure arterial dilation from stimuli over time

Extracurriculars

IEEE Officer Board, Los Angeles　　　　　　　**2016 to Present**

Workshops Board (Arduino, Eagle CAD)

Hands-on interactive projects designed to explore the field of Electrical Engineering

- Designed a Printed Circuit Board module of a Morse Code Speaker
- Created an Image Processing workshop based on image registration of Giardia samples
- Participated in IEEE Micromouse: a maze-solving mini car

Hackathons　　　　　　　**2015 to 2016**

Member of IDEA Hacks, Cal Hacks 2.0, LA Hacks

- Constructed a smart fridge notifying a user wirelessly when undesired object removal occurs
- Created an app retrieving newspaper abstracts for the Pebble smartwatch
- Implemented a GUI for plotting the price history of a product

Member of IEEE, ACM, Linux Users Group, MentorSEAS
Honor Societies: Tau Beta Pi, Eta Kappa Nu, Upsilon Pi Epsilon

Technology & Software Domain Expertise

Languages: Java(expert), C++(expert), MATLAB(proficient), C(proficient), Python, Git(kyleliangus)

Platforms/Software: Eclipse, MSVC, Qt, Android, Arduino, Linux, Eagle CAD

Classes: Data Structures, Intro to Computer Organization, Algorithms and Complexity,
Software Construction Laboratory, Signals and Systems, Circuit Theory, Logic Design of Digital Systems