

## LINKS

Github: @vivikyung  
Devpost: @vivikyung  
Linkedin: @vivianhshen

## SKILLS

### Experienced

Python, C, C++, Matlab  
UNIX/Linux  
CAD (Solidworks), ROS  
Microcomputers, Embedded  
Systems

### Proficient

OCaml, Java, Javascript,  
SQL, HTML, CSS

### Languages

Chinese, Spanish

## AWARDS

Microsoft Diversity  
Sponsorship (2018)  
Facebook f8 Hackathon  
Fellow (2018)  
Ada Lovelace Fellow (2017)

## COURSEWORK

Humanoid Robotics  
Computational Robotics  
Intro to Robotics  
Intro to Brain Computer  
Interaction  
Intro to Systems  
Computer Networks  
Programming Lang &  
Translators  
Fundamentals of Comp  
Systems  
Comp Graphics and Design  
Intro to Electrical Engineering  
Dynamics and Vibration  
Engineering Mechanics

## EDUCATION

### Columbia University

Class of 2019

-BS in Computer Science, Minor in Mechanical Engineering

GPA: 3.5

## WORK EXPERIENCE

### Lab Associate at Disney Research

Summer - Fall 2018

Working on a research project creating software for a hybrid RF and computer vision system, focusing on the latter. I am the only undergraduate in this position.

### Robotics Research Fellow at NASA Jet Propulsion Lab

Summer 2017

Designed and implemented all the electronics and programming for a mechanism on a Mars orbiter. Worked on improving sensor fusion for computer vision.

### Researcher at Creative Machines Lab

Jan 2016 - May 2018

Worked on a food 3D printer, primarily on mechanics. Included designing, building, and implementing the food processing and nozzle system.

### Course Assistant for Computer Networks

Spring 2018

Head teaching assistant for Professor Henning Schulzrinne, for the graduate course Computer Networks.

## PROJECTS

### SmartTrax - Microsoft Prize @ Capitol360

June 2018

Built a flask web app that performs sentiment analysis on user inputted text and a list of song categories, and creates a soundtrack for the story.

### Xperience - Finalist @ VHacks

March 2018

Built a VR live streaming app hosted on a Heroku server with a React frontend. 3rd place in the social inclusion category of the premier hackathon in the Vatican.

### Smart Bike - Top 10 @ HackMIT

Sept 2017

Built an embedded systems kit that adds various tail-light/distance functionalities and computer vision/image recognition technologies to an average bike.

### Piano Glove - 2nd Place @ PennApps

Jan 2017

Built a glove that plays the piano based on finger presses and uses ultrasonic range finding to emulate an invisible piano, outputting corresponding frequencies.

## LEADERSHIP

### DevFest Head Organizer

2016 - 2018

Head of Columbia's hacking week with 1500+ participants, culminating in a hackathon. Includes planning logistics, managing a team, and reaching sponsors.

### CodePhil Coordinator

2016-2017

Executive of social non-profit aimed at developing Filipino computer science curriculum. Taught high schoolers teachers, and organized a student conference.

### NavTalent Campus Ambassador

2018

Working to create a network of entrepreneurially-minded students across schools.