

# Justine Robin Puerto

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## EDUCATION

### UC BERKELEY

BS IN BIOENGINEERING |  
CONCENTRATION IN BIOMEDICAL  
DEVICES  
Expected Grad. May 2021

### EASTSIDE HIGH SCHOOL

HIGH SCHOOL DIPLOMA  
Grad. June 2016

## COURSEWORK

### ENGINEERING

Structure and Interpretation of Computer  
Programs  
Designing Information Devices and  
Systems I  
Introduction to Biomedicine for Engineers  
Introduction to Biotechnology  
BioMEMS and Medical Devices  
Foundations of Data Science

### SCIENCES AND MATHEMATICS

Organic Chemistry  
Physics for Scientists and Engineers  
Multivariable Calculus  
Linear Algebra and Differential Equations

## SKILLS

### PROGRAMMING LANGUAGES

Proficient In  
• Python • MATLAB • Java • pandas •  
seaborn • SQL  
Familiar In  
• Scheme • HTML • CSS

### ENGINEERING

• Building Circuits and Soldering  
• Data Analytics and Visualization  
• Familiar with Inverse and Forward  
Kinematics  
• Three-Dimensional Modeling and CAD  
• Experienced with PCR, Electrophoresis,  
and Other Wet Lab Techniques

### TECHNOLOGY

• Microsoft Office • G Suite • Sublime  
•  $\LaTeX$  • Photoshop • Jupyter Notebook

### INTERPERSONAL SKILLS

• Strong Communication Skills  
• Organized • Fast Learner  
• Project Management  
• Public Speaking • Leadership

## WORK EXPERIENCE

### HUMAN-ASSISTIVE ROBOTIC TECHNOLOGY LAB | STUDENT RESEARCHER

Aug 2018 – Jun. 2020 | Berkeley, CA

- Assisted graduate students on several of their projects. Analyzed data of patients using forward and reverse kinematics, collected to visualize and understand the movement of the patients' shoulders. Helped in fabricating hand prosthesis.

### CAL CALLING CENTER | FUNDRAISING ASSOCIATE

Nov 2016 – Present | Berkeley, CA

- Worked as a caller for the University. Called both alumni and parents to update them on life at Cal, build rapport, and pitch reasons as to why they should donate to a fund at UC Berkeley.

### COLLEGE OF ENVIRONMENTAL DESIGN | STUDENT ASSISTANT

Jan 2018 – Jan 2019 | Berkeley, CA

- Worked as an assistant for the College advisors as well as the front desk. Organized their students' folders, processed academic forms, as well as hopped on any project needing assistance

## VOLUNTEER/LEADERSHIP

### PILIPINX ASSOCIATION OF SCIENTISTS, ARCHITECTS, AND ENGINEERS (PASAE) | INTERNAL VICE PRESIDENT

Aug 2020 – Present | UC Berkeley

Facilitating the intern program for our professional tech organization that focuses on the empowerment and increase in representation of Filipinx identifying people within the STEAM and tech industries.

### PILIPINX ACADEMIC STUDENT SERVICES | INTERNAL AFFAIRS DIRECTOR INTERN

Jan 2019 – Jun 2019 | UC Berkeley

Conducted and organized meetings and activities for the intern class as well as facilitated an inter-organizational event to promote inclusivity within the Pil Community.

### FASTERCON | STUDENT ORGANIZER (LOGISTICS COMMITTEE)

Jun 2018 - Oct 2019 | UC Berkeley

FASTER (Filipino Americans in Silicon Valley Tech) teamed up with PASAE to hold an annual tech conference of 300+ people which aims to create, connect, and cultivate a valuable movement of Filipino Americans in the technology industry, with a focus on the San Francisco Bay Area / Silicon Valley.

## PROJECTS

### MICRODEVICES FOR BRACHYTHERAPY ADMINISTRATION Dec 2018 | Berkeley, CA

Proposed a modification of biomedical device to administer brachytherapy to cervical cancer while being cost effective for the patient. The proposed device exhibited our knowledge in macromachining and micromachining techniques in fabricating MEMS.

### POWER GLOVE | HART LAB Sept 2020 - Ongoing | Berkeley, CA

Recreated a two-fingered glove that is meant to assist those who suffer amyotrophic lateral sclerosis or a lack of dexterity in their hands in grasping or letting go objects.