

Elizabeth Wang

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EDUCATION

UC BERKELEY

B.S. BIOENGINEERING

MINOR: ELECTRICAL ENGINEERING
& COMPUTER SCIENCE

GRADUATING MAY 2021

Cum. GPA: 3.60 / 4

COURSEWORK

UNDERGRADUATE

Microfabrication Technology

Microelectronic Devices & Circuits

Integrated-Circuit Devices

Designing Information Devices &
Systems

BioMEMS & Medical Devices

Instrumentation in Biology &
Medicine

Principles & Techniques of Data
Science

Artificial Intelligence

Data Structures

Prototyping & Fabrication

SKILLS

PROGRAMMING

Python (Pandas, Pytorch, SKLearn)

Java

C & C++

SQL

MATLAB

HTML

CSS

ELECTRICAL

Circuit Analysis & Debugging

MEMS Fabrication & Testing

MOSFET Design & Simulation

CAD SOFTWARE

SolidWorks

AutoDesk Fusion

Adobe Illustrator

WET LAB

Mice Handling (IP & IV injections,
dissections, tumor implantation)

Cell & Tissue Culture

Sterile/Aseptic Technique

WORK EXPERIENCE

RESEARCHER | LAWRENCE BERKELEY NATIONAL LABORATORY

May 2018 - Present

- Investigated the pharmacokinetics & pharmacodynamics of radioactive antibody-drug conjugates in small cell lung cancer tumor mice models
- Secured \$6000 grant to execute a full-length biodistribution study
- Slashed the price of custom-designed microPET phantom from \$2000 to \$50

EECS 16B LAB TEACHING ASSISTANT | UC BERKELEY ELECTRICAL ENGINEERING & COMPUTER SCIENCE

January 2020 - Present

- Guided students through debugging circuitry and Python and C/C++ code
- Helped student understand filters, modeling, dynamics, and controls

INTERN | BIODESIGN IMMERSION EXPERIENCE

May 2020 - Aug 2020

- Conducted over 30 interviews to pinpoint the needs of various stakeholders in the hydrocephalus community

PROJECTS

MEMS DEVICES & CHARACTERIZATION

- Fabricated MOS transistors and poly-Si surface microstructures
- Characterized electrical/mechanical performance of devices

SIXT33N VOICE-CONTROLLED CAR

- Designed filters to process and amplify input microphone signals
- Regulated motor drivers with a closed loop control system
- Implemented Principal Component Analysis for voice command recognition

OPTIMIZATION OF N-CHANNEL SI-MOSFET

- Co-optimized channel/body dopant concentration, junction depth, and spacer length in a simulated n-channel silicon MOSFET

PERPETUAL CALENDAR

- Laser cut, sanded, and stained an adaptable, monthly calendar design
- Devised custom hooks for ease of mounting onto a loft bed frame

EXTRACURRICULARS

PROJECT COMMITTEE CHAIR | BIOENGINEERING HONOR SOCIETY

- Built a 3D printed hand whose motions were remotely controlled through the use of an Arduino and flex sensors
- Hosted Arduino, Computer Aided Design, and Rapid Prototyping workshops

COMPETITIVE BOXER | CAL BOXING CLUB

- Led conditioning sessions twice a week, in addition to attending two-hour practices four times a week