

Kamila Isabel Kunes

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Education

UCLA

GPA: 3.771

Pursuing B.S. in Electrical Engineering

Expected Graduation: June 2024

NAVSEA Warfare Center

Pre-Engineering Program
2020 | Port Hueneme, CA

Skills

Programming

C/C++ • Python • LaTeX • HTML

Software Tools

MATLAB • WaveForms • Xcode •
Google Colaboratory • Logisim •
Spyder • Altium CircuitMaker

Hardware

Arduino • Analog Discovery 2 •
I2C/SPI Devices

Laboratory

DAQ systems • PCR testing • Plate
streaking • Gram staining

Honors/Awards

Hispanic Scholarship Fund | 2021-22

Naval Horizons Future of
Technology | 2021

Valedictorian Foothill Technology
High School | 2020

California State Seal of Biliteracy |
2020

National Hispanic Recognition
Program Scholar Award | 2019

Society of Women Engineers Award
of Merit | 2019

Professional Organizations

Center for Excellence in Engineering
and Diversity
| Sep 2020 - Present

Society of Hispanic Professional
Engineers
| Sep 2020 - Present

Experience

Arac Lab - UCLA Department of Neurology | Research intern

Mar 2022 - Present | Los Angeles, CA

- Designed electrical and mechanical experimental set up for measuring neuronal signaling from mice during a specified motor action
- Developed data acquisition system to receive sensor outputs to calculate output signals

Society of Latinx Engineers and Scientists

External Vice President: June 2022 - present | Los Angeles, CA

Treasurer: June 2021 - June 2022 | Los Angeles, CA

- Manage four internal bank accounts, club spending, and fundraising
- Uphold communication with UCLA financial staff and sales representatives
- Organize outreach events such as Engineers in Training Day, LeaderSHPE Jr, and Noche de Ciencias to inspire high school students to pursue STEM

Lure Fish House | Hostess and online order processor

Jun - Sep 2021 | Ventura, CA

- Proposed and implemented new seating rotation to lower wait time and improve customer experience

Visual Machines Group | Research student under Dr. Achuta Kadambi

Jan - Mar 2021 | Virtual

- Proposed solutions to skin-tone biases in pulse oximetry
- Established ideal ethical codes within the biotechnology industry

Projects

Live Fast Fourier Transforms for Sound Driven Robotics Feb - Mar 2022

Designed an FFT algorithm to analyze human whistle frequency to produce a single bit output corresponding to a directional action of an Arduino controlled car. Applied strong programming skills in Python to perform aforementioned FFTs, and to create frequency bounds corresponding to motion. Integrated Arduino software to wirelessly relay the output bit to the Arduino in control of the vehicles four motors.

Connect-N Game Design with AI in C++ May 2021

Designed the code for a 'Connect-N' game for variable game board sizes. Developed the algorithm for an AI player that will perform the next best move without question using recursion for all possible game instances. Coded in C++ using Xcode.

Global Outreach

Dos Pueblos Relief Baja 2010 - 2020 | San Vicente, Mexico

Built and optimized local infrastructure, organized educational summer camps, and dispensed food for local residents

BREATHE June 2018, 2019 | Wilderswil, Switzerland

Coordinated a child care program for the children of globally based relief workers

Job Shadows

Community Memorial Hospital Apr 2019 | Ventura, California

Experienced staff duties in the ER and hospital lab

Amgen Apr 2019 | Thousand Oaks, California

Developed understanding of drug manufacturing from protein discovery to mass production

CSUCI Laboratory Apr 2019 | Camarillo, California

Assisted in antibiotic resistance testing of mammalian cells